SHARP Service Manual

MODEL SA-507H

SPECIFICATIONS

Circuit	Solid state MW/FM FM Stereo 2-band superheterodyne system, 4-channel tuner-amplifier with AGC and microphone mixing circuit.
Power Source	110V/220V/240V, 50/60 Hz
Power Consumption	98 Watts
Semiconductors	53-transistor (1-FET), 2-IC, 39-diode
Dimensions	558(W) x 168(H) x 359(D) mm
Weight	13 kg
Provided Jacks and Sockets	4-channel Discrete input jacks, 2-channel Tape REC/P.B. socket (5 pin 180°), 4-channel/2-channel Tape REC/P.B.jacks, 2-channel Phono socket (5 pin 180°), MW aerial socket, FM aerial socket, speaker socket (DIN 2 pin), earth terminal, Headphone Jack and Microphone jack.

FM SECTION

Frequency Range	87.6 ~ 104 MHz
IF	10.7 MHz
Sensitivity	4μV (at 240 ohms load 26dB S/N 40kHz deviation)
IF Rejection	60 dB
Image Rejection	45 dB
Distortion	1 %
S/N	50 dB

FM STEREO SECTION

Separation	25 dB at 1 kHz
Distortion	2 %

MW SECTION

Frequency Range	520 ~ 1620 kHz
IF	455 kHz (SUK 465 kHz)
Maximum Sensitivity	100 μV/m
IF Rejection	25 dB
Image Rejection	30 dB
AGC figure of merit	50 dB
ACA 10 kHz	20 dB

AUDIO SECTION

Music Power Output	4 x 18W 4-channel drive
Continuous Power Output	2 x 12W Both channels drive, 4 x 9W 4-channel drive
Frequency Response	40 Hz ~ 16000 Hz ± 1.5 dB
Hum and Noise:	
Minimum volume	3.5 mV
Maximum volume:	
PHONO Mag.	30 mV
PHONO Ceramic	20 mV
4-channel Discrete	10 mV
4-channel Tape	10 mV
2-channel Tape	10 mV
Output Impedance	4, 8 or 16 ohms
Input Sensitivity at 9W output:	
PHONO Mag.	3 mV
PHONO Ceramic	150 mV
4-channel Discrete	150 mV
2-channel Tape	150 mV
Microphone	2 mV
Recording Output Level	30 mV
Tone control	
Bass	± 9 dB
Treble	± 9 dB
Matrix	SQ, RM and Surround with phase shifter

SHARP CORPORATION OSAKA, JAPAN

DISASSEMBLY

CHASSIS REMOVAL (Refer to Figure 1)

1) Disconnect all leads connected to the back of the set.
2) Remove 4 screws (1) retaining the chassis (2).
3) Gently pull forward the panel (3) and chassis from the cabinet (4).

FRONT PANEL REMOVAL

1) Remove the cabinet as described in Chassis Removal
2) Remove 10 knobs (5) from front of the panel.
3) Remove 14 screws (6) retaining the front panel.
4) Gently pull out the panel while holding both sides.

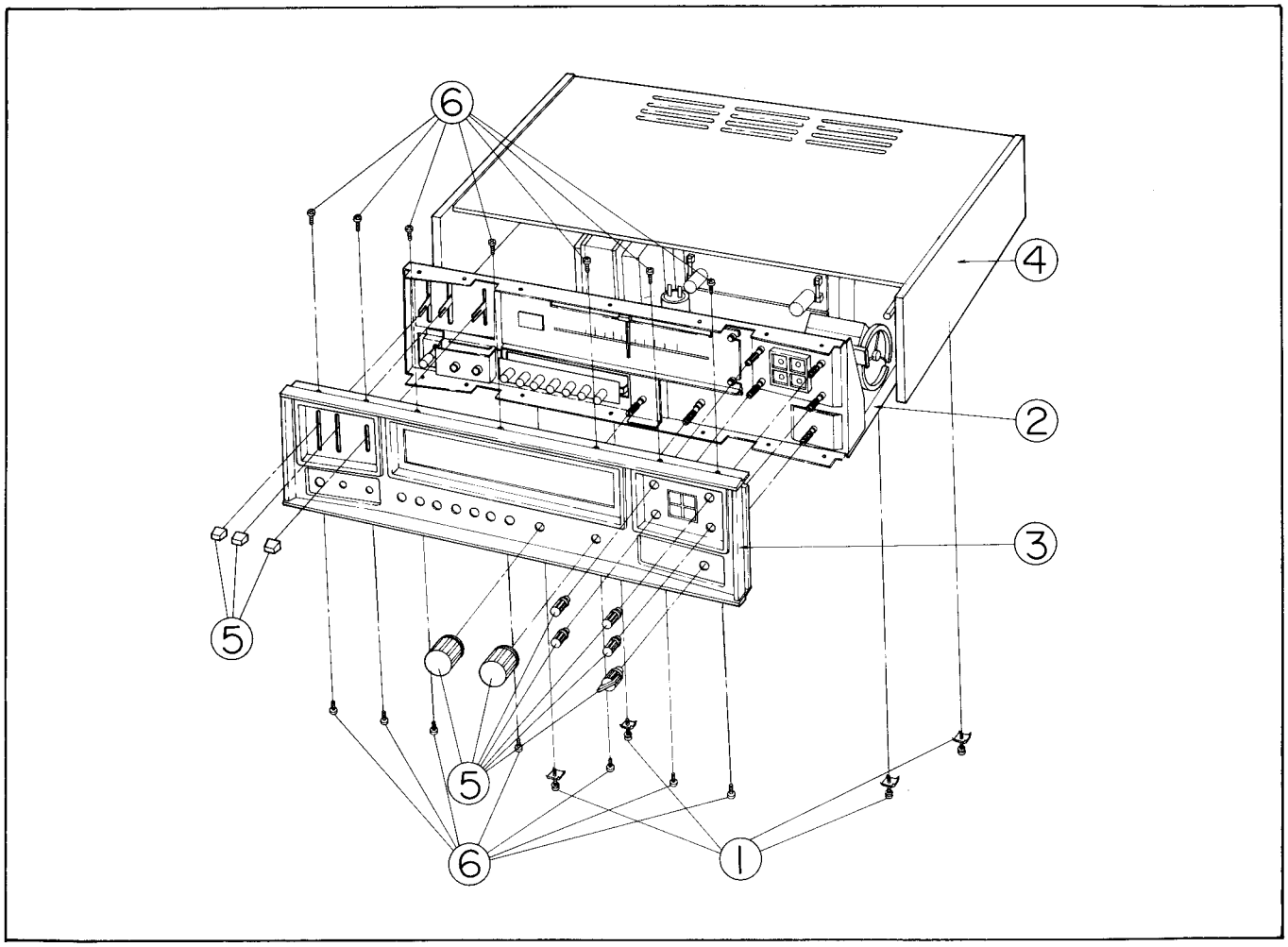


Figure 1 DISASSEMBLY

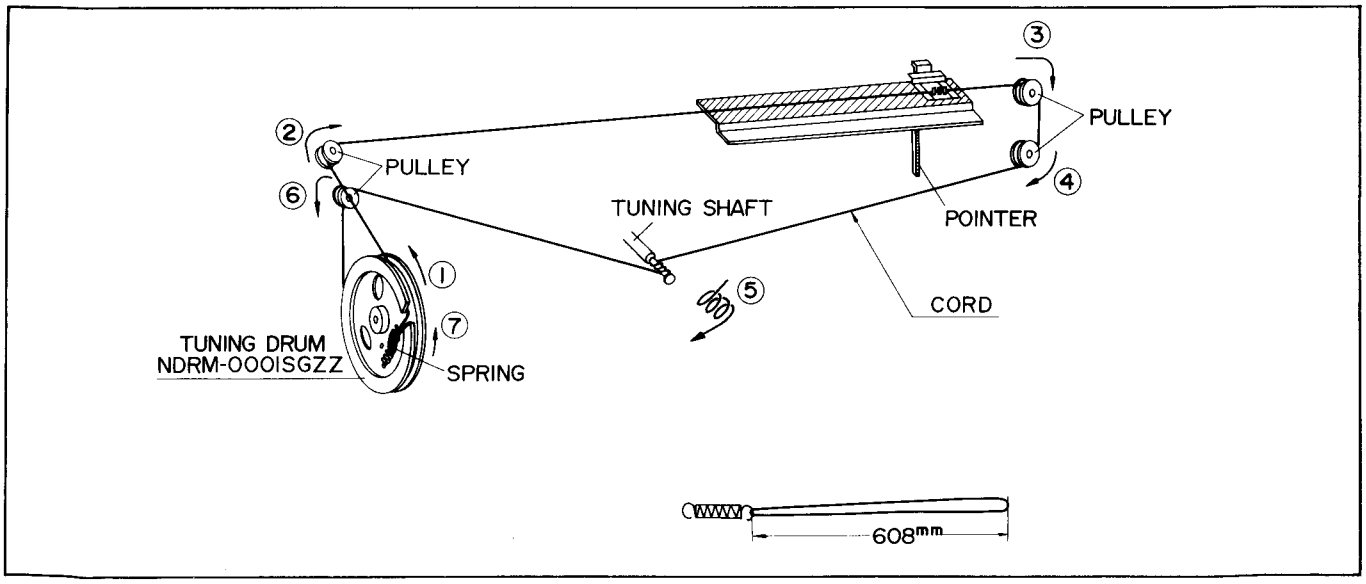


Figure 2 DIAL CORD STRINGING

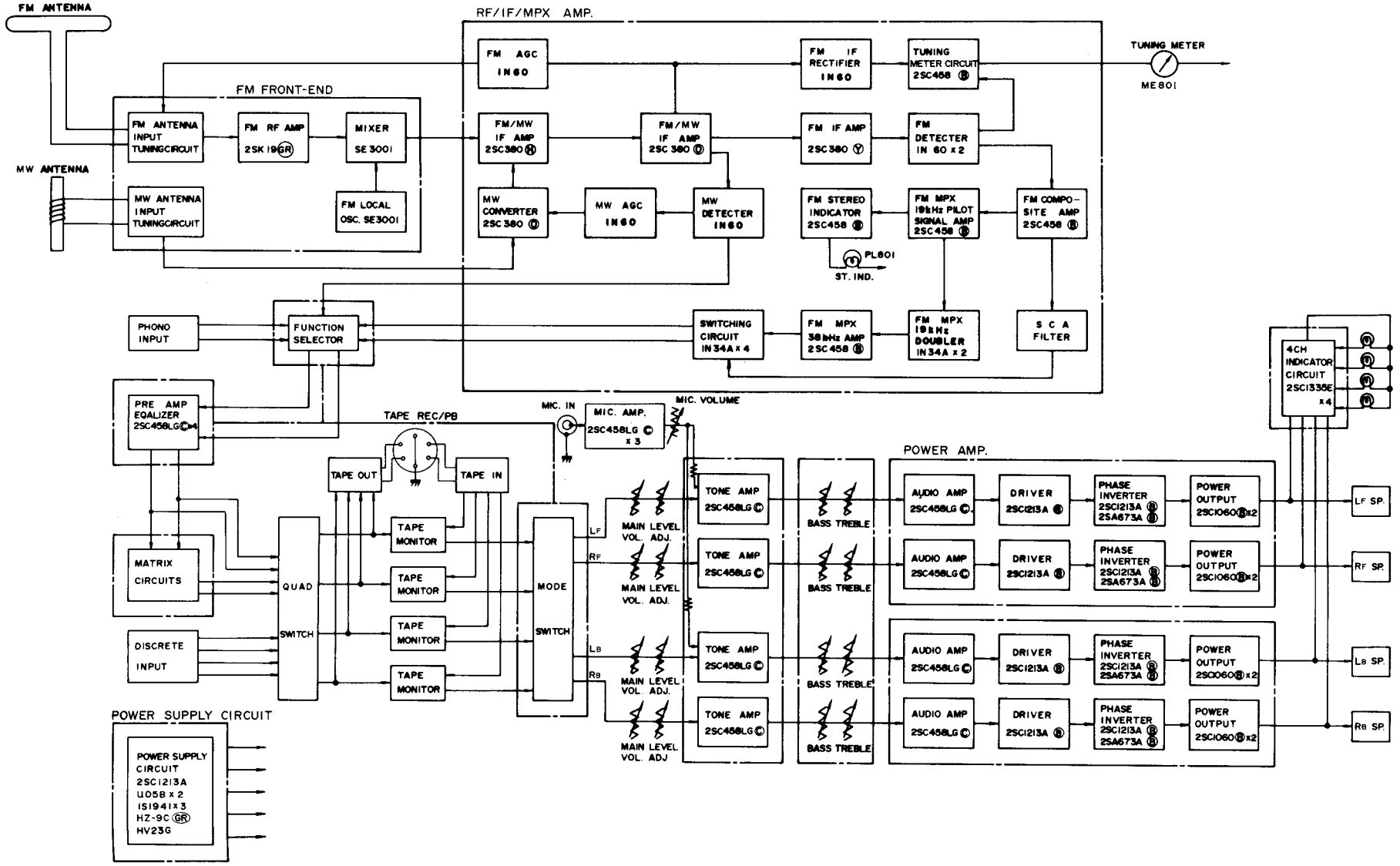


Figure 3 BLOCK DIAGRAM

DESCRIPTION OF CIRCUITS

4-CH reproduction system is first explained before proceeding to the matrix 4-CH system employed for the set.

4-CH REPRODUCTION SYSTEM

The process from sound catching by microphone to reproduction by speaker is roughly divided into three as follows.

1. 2-2-4 system (Refer to Figure 4)
   The system to take out hidden components or make residual resonance from those stereophonically recorded.
   In this system, the sound is reproduced by "Matrix" of the set.
   With this system, it is, therefore, possible to reproduce ordinary stereo records or FM stereo broadcasting in 4-channel sound.

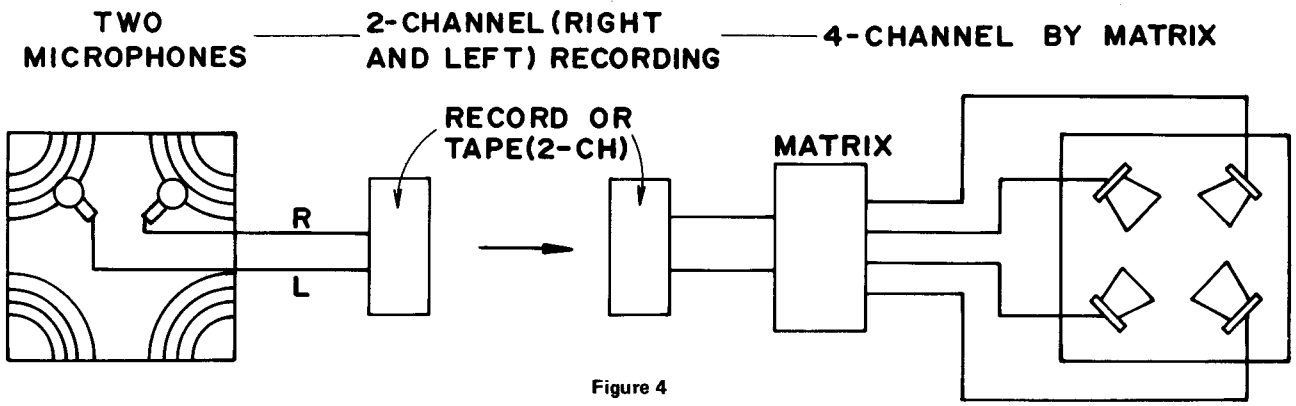


Figure 4

2. 4-2-4 system (Refer to Figure 5)
   In this system, as shown in figure 5, there are four sources which are fed to an Encoder (containing matrix circuitry) and reduced to two channels on record or tape. When the record (or tape) is played back via a Decoder, and four reproduction systems, you will derive sound distribution which is representative of the original sound. Also in this system, the sound is reproduced by "Matrix" of the set.

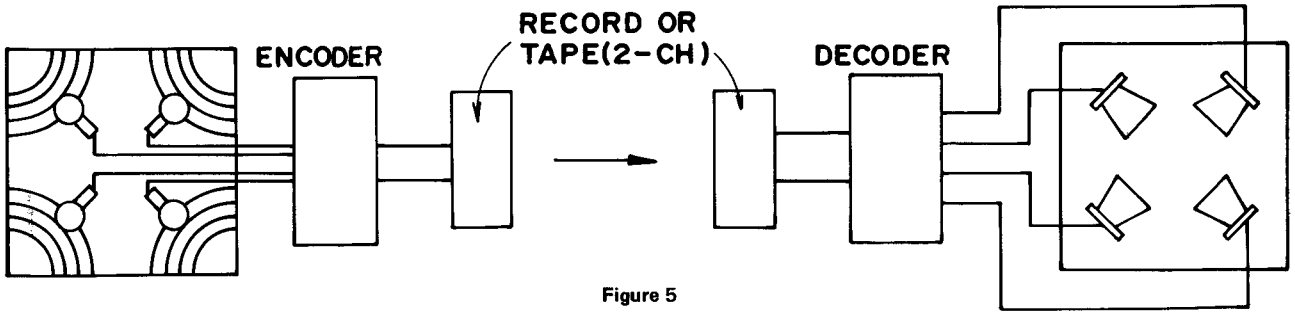


Figure 5

3. 4-4-4 system (Refer to Figure 6)
   The system in which the channels are completely separated to each other in the full course of microphone to speaker, and is called a discrete system. In this system, the sound is reproduced by "Discrete" of the set.
   In the 4-4-4 system, the sound is completely separated in the front and rear, and right and left sides and more original sound can be reproduced. However, unlike the above mentioned two systems, this system has no inter-changeability (compartibility) with the conventional stereo because it requires record, tape recorder and record

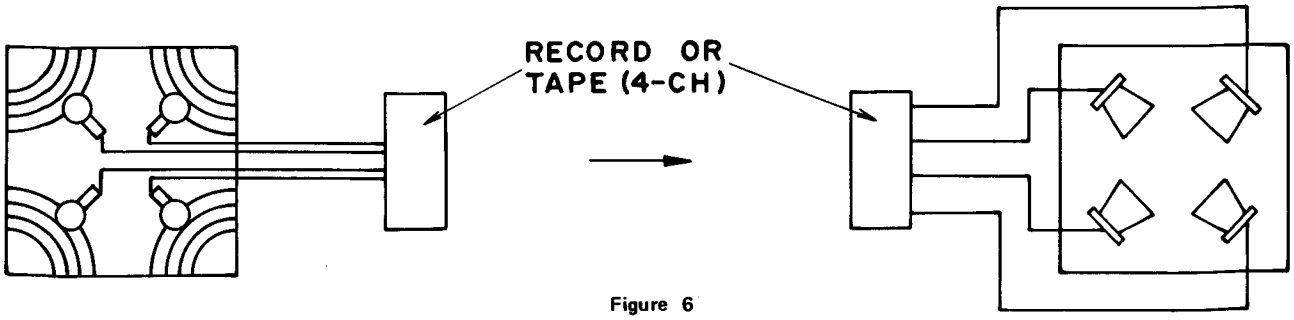


Figure 6

MATRIX CIRCUITS OF THE SET

For this unit, three types of decoding system can be enjoyed thanks to the decoder provided in. They are regular matrix system, SQ matrix system and surround matrix system which enables to reproduce 4-CH stereo sound from 2-CH stereo record.

(A) RM Decoder Circuit:

The fundamental cormulas of the RM Decoder are as follows:

$$\left.\begin{aligned} L_{\acute{F}} &= L_T + 0.41\,R_T \\ L_{\acute{R}} &= -jL_T + j0.41R_T \\ R_{\acute{F}} &= 0.41L_T + R_T \\ R_{\acute{R}} &= -j0.41L_T + jR_T \end{aligned}\right\}$$

Provided that $L_{\acute{F}}$ through $R_{\acute{R}}$ stand for the reproducing signal and L_T through R_T for the transmission series signal (for instance, of the record), and "j" for the 90° phase shifting.

The electric circuit to perform the above mentioned operation can be composed of the phase shifter and the adder as hereunder stated. **(Refer to Figure 7)**

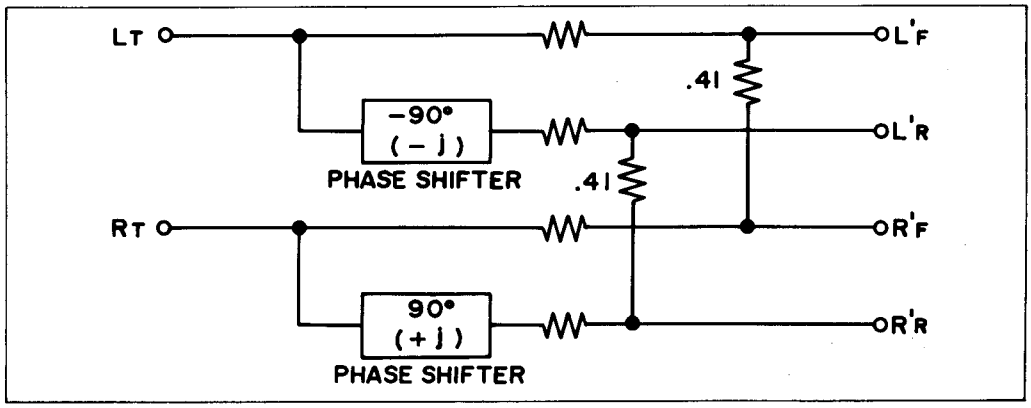


Figure 7

(B) SQ Decoder Circuit:

The fundamental formulas of the SQ Decoder are as follows:

$$\left.\begin{aligned} L_{\acute{F}} &= L_T \\ L_{\acute{R}} &= j0.707L_T - 0.707R_T \\ R_{\acute{F}} &= R_T \\ R_R &= 0.707L_T - j0.707R_T \end{aligned}\right\}$$

This operational electric circuit can be also built up of the phase shifter and the adder. **(Refer to Figure 8)**

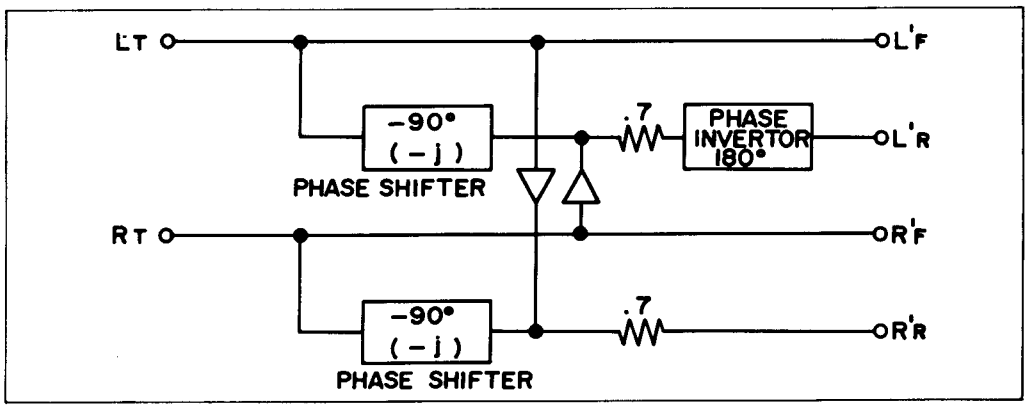


Figure 8

(C) Surround Decoder Circuit: (Refer to Figure 9)

$$\left.\begin{aligned} L_{\acute{F}} &= L_T \\ L_{\acute{R}} &= -jL_T + j0.41R_T \\ R_{\acute{F}} &= R_T \\ R_{\acute{R}} &= -j0.41L_T + jR_T \end{aligned}\right\}$$

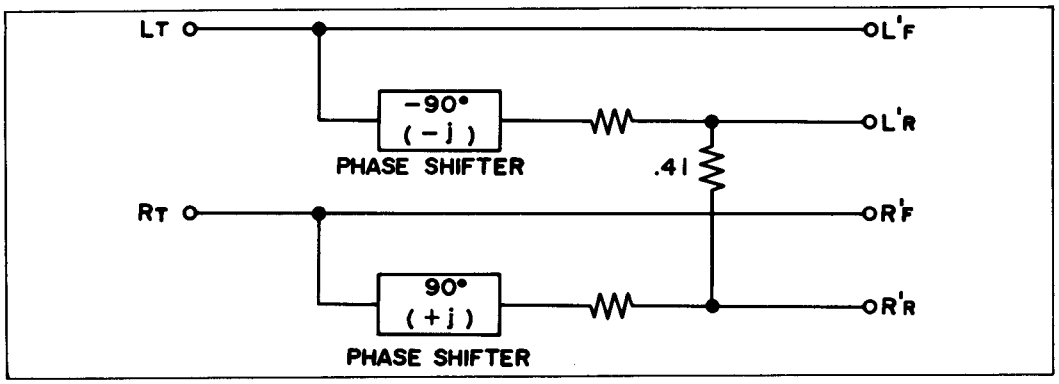


Figure 9

(D) Comparison of each matrix system:

With regard to the SQ and RM matrix systems, the major difference between them lies in the undermentioned two points:

1. As to the SQ matrix system, sound separation on front 2 speakers and rear 2 speakers is theoretically infinite, whereas with the RM matrix it is 3 dB.
2. With the SQ matrix system, when the sound source exists only in F_L for instance, there appears the crosstalk (the diagonal crosstalk) on both of R_L and R_R (in the back respectively) of the reproducer. Whereas with the RM matrix system, the crosstalk takes place in F_R and R_L.
3. Accordingly, sound separation between the front and rear is rather poor, with the SQ matrix system.

Our "surround" matrix system has been designed for embodiment of these two characteristics.

(E) Phase-shifting Circuit:

It is impossible to compose such a uni-circuit as the circuit where the phase can be shifted in a certain angle at a constant gain throughout the whole audio area (in case of the 180° phase-shifting, however, there is a possibility of foaming the so-called "phase-inversion circuit"); and yet, it is possible to compose the similar circuit by combining the PSN circuit used in SSB.

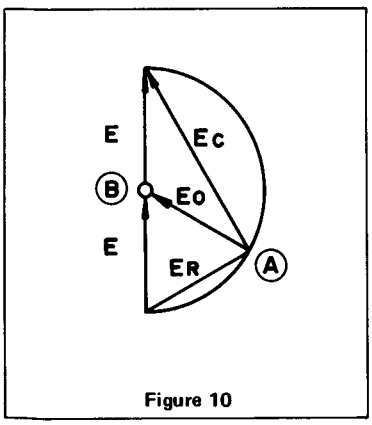


Figure 10

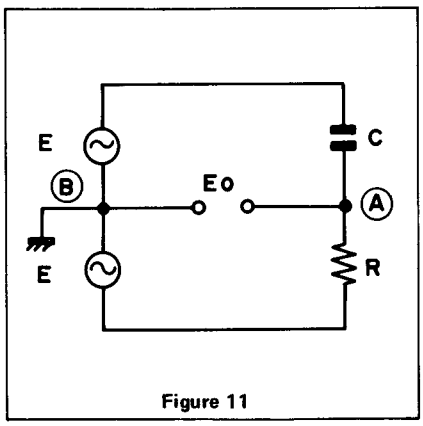


Figure 11

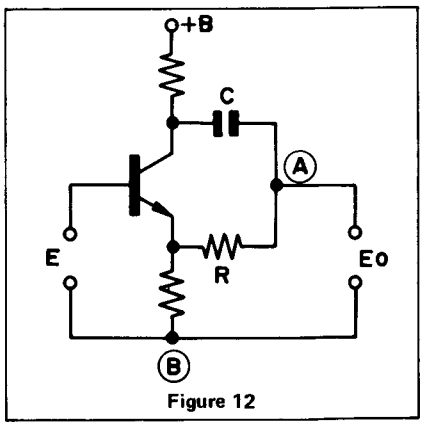


Figure 12

The Fig. 10 is the vector diagram of the phase-shifting circuit. Suppose that the source voltage is 2E with its vector based upon as shown in Fig. 10: When the load of C, R series circuit is applied to this voltage, their respective vector relation will be as shown in Fig. 10. That is, the voltages generated in R and C (the absolute values) may vary according to the frequency, but from the fact that 90° phase difference always exists between E_R and E_C and relative formula, $2E = E_R + E_C$, the locus of R and C connecting point (A) geometrically forms a semicircle with the 2E as its diameter.

Therefore, the voltage E_O, generated at the central point between (A) and (B) of the 2E source voltage, undergoes transformation as indicated below:

$$|E_0| = |E| = \text{constant}$$
$$\angle E_0 = \text{transformed along with frequency}$$
As of $f = 0$ $\quad \angle E_0 = \angle E$
As of $f = \infty$ $\quad \angle E_0 = \angle E + 180^\circ$

And now, here is formed the circuit where the phase angle is variable from 0° to 180° at a constant gain. **Fig. 11** is the diagram of the above explained phase-invension circuit and **Fig. 12** shows the details of its composition.
By connecting a number of the circuits as shown in **Fig. 12**, the continuous phase inversion from 0° → - - - 180° → - - - 360° → shown by the **Fig. 13** becomes possible.
Besides, by composing two sets of such a circuit, the mutual phase difference between them can be made freely maintainable being in an approximate value though.

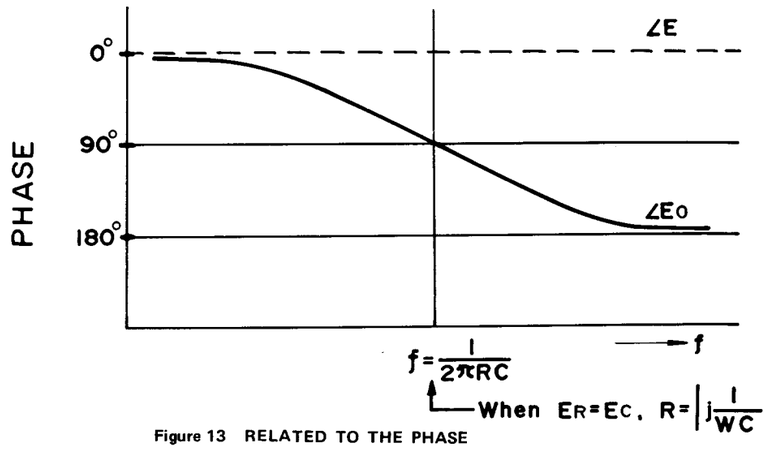


Figure 13 RELATED TO THE PHASE

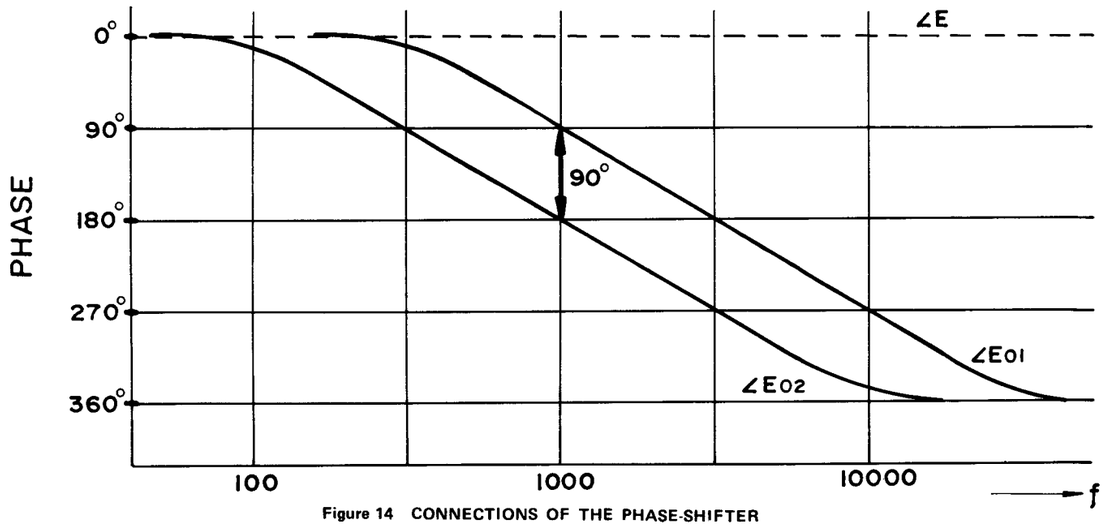


Figure 14 CONNECTIONS OF THE PHASE-SHIFTER

The details of the circuit are given hereunder. The due attention to be paid hereto is that the source voltage must be constant. In other words, when composing the circuit actually, it is necessary to minimize the internal impedance to the possible extent to let it serve as the source (E).
Similarly, the input impedance of the circuit, to be connected with E_0, must be magnified as much as possible.
This time, the hybrid IC has been used in this phase-shifting circuit.

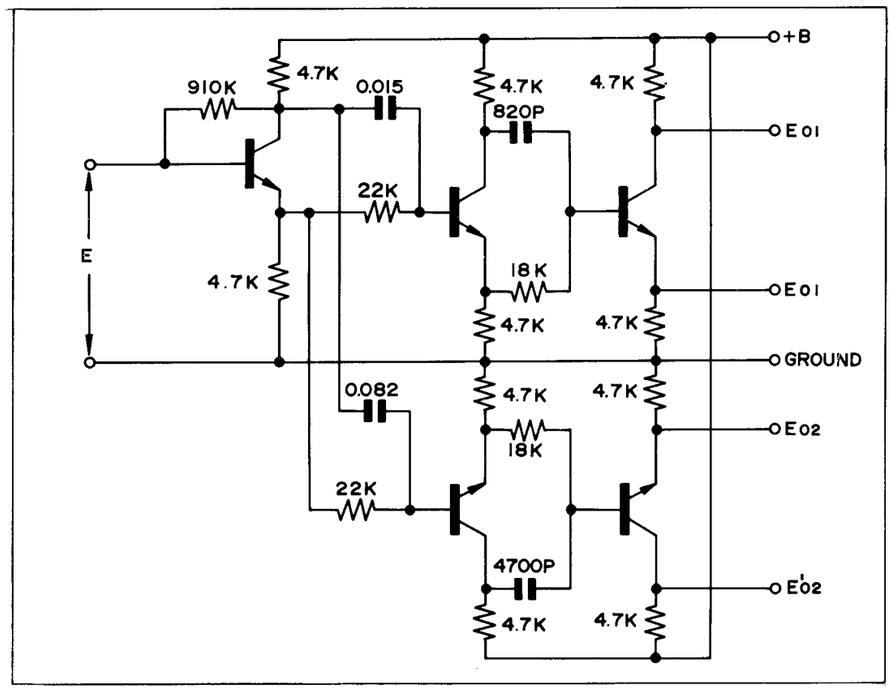


Figure 15 PRACTICAL CIRCUIT (90° PHASE SHIFTER)

$\angle E'_{01} - \angle E_{01} = 180^\circ$
$\angle E'_{02} - \angle E_{02} = 180^\circ$
$\angle E'_{01} - \angle E_{02} \cong 90^\circ$ (in case of 100 Hz ~ 10 kHz)

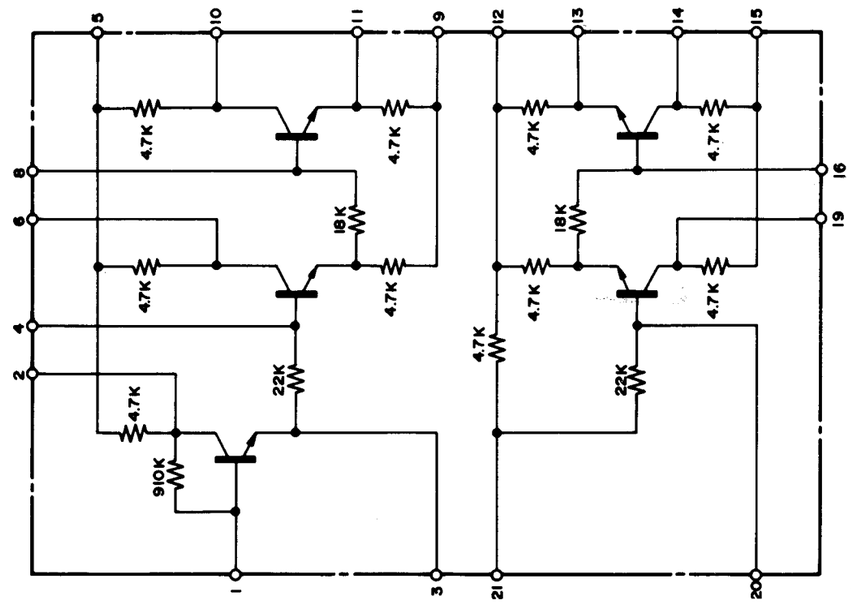


Figure 16 EQUIVALENT CIRCUIT OF INTEGRATED CIRCUITS

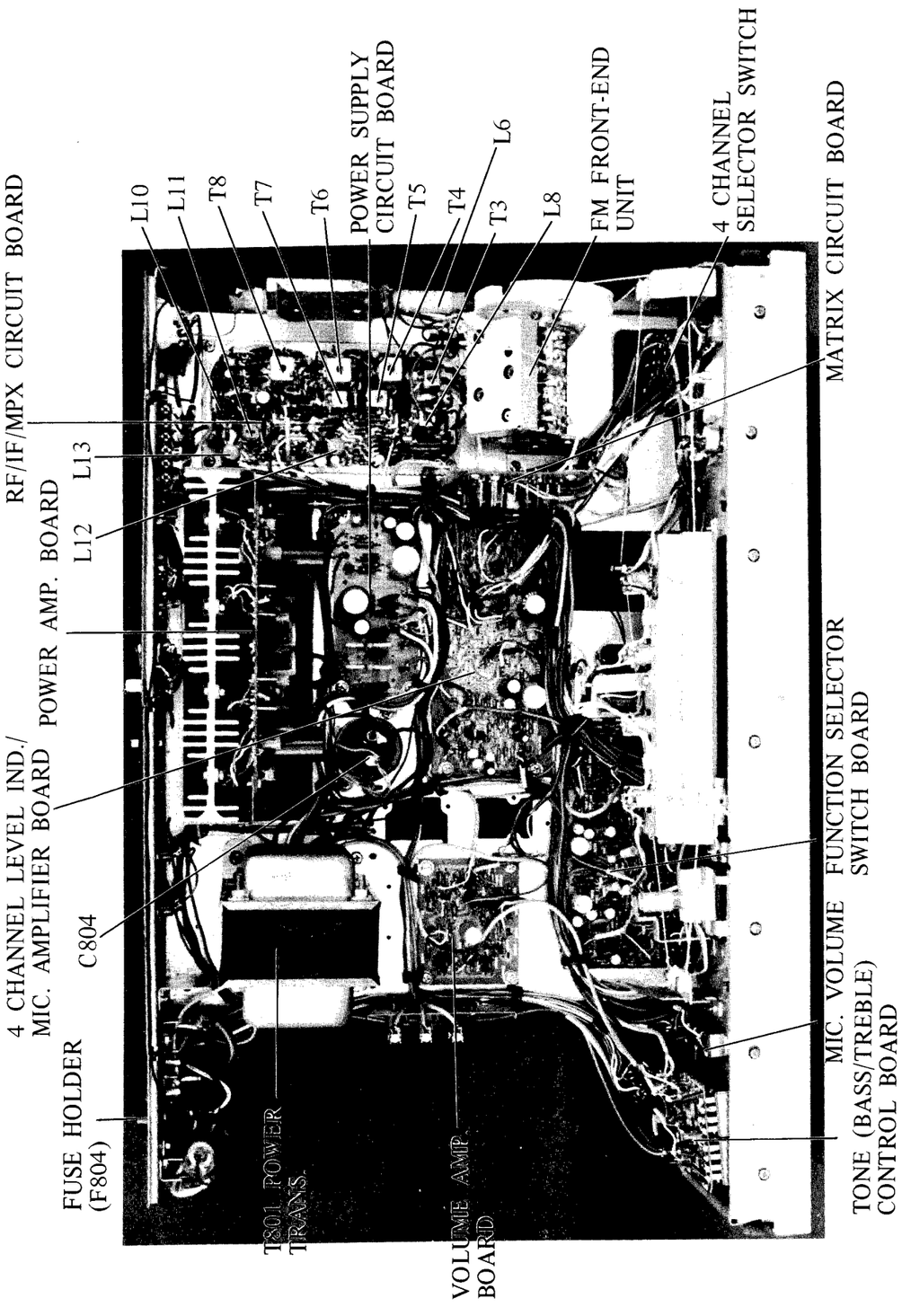


Figure 17 CHASSIS LAYOUT

ALIGNMENT INSTRUCTIONS

Alignment is an exacting procedure and should be undertaken only when necessary. If alignment of MW and FM is required, either section may be done first. The FM stereo section, however, should be aligned only if the FM monaural section is properly adjusted.

REQUIRED EQUIPMENT

1. Signal generator with a frequency range of 513 kHz to 1650 kHz: MW
2. Signal generator with a frequency range of 87 MHz to 105 MHz: FM
3. Signal generator with a frequency range of 455 kHz ± 10 kHz: MW (SUK 465 kHz ± 10 kHz)
4. Signal generator with a frequency range of 10.7 MHz ± 0.5 MHz: FM
5. Vacuum tube voltmeter (AC-VTVM)
6. Sweep signal generator with a sweep range of at least 500 kHz and center frequency of 10.7 MHz with at least a 10.7 MHz marker. (Ext. marker may be used)
7. Oscilloscope with a wide range amplifier of approximately 100 kHz.
8. Test loop, a coil of any size wire, one turn or more.
9. FM stereo signal generator.
10. Audio signal generator with a frequency range of 20 Hz to 100 kHz.
11. Alignment tool ..... A non-metallic alignment tool should be used for the alignment.

Note: Allow the set at least five minutes to warm up before attempting alignment. During alignment keep the signal generator output at the lowest level that will maintain a usable output from the set.
For adjustment of stereo separation, the FM stereo generator output is usually 1000 μV.
Ground connection of signal generator ..... chassis ground.

PRE-ALIGNMENT INSTRUCTIONS

1. Set the volume adjuster at "MAX".
2. Set the tone adjuster and the balancer volume at around "CENTER" respectively.
3. Either of right and left terminals can be used for adjustment.
4. Modulation factor of the signal generator is taken to be 30%.

ALIGNMENT PROCEDURE

MW ALIGNMENT (Refer to Figure 18 and 19)

STEP	BAND	TEST STAGE	SIGNAL GENERATOR CONNECTION	SIGNAL GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
1	MW	* IF	Thru 0.01MFD to Q13 base as small as possible.	455 kHz (400 Hz, 30%, AM modulated)	High end of dial (minimum capacity)	Oscilloscope across C131 (TP 3)	T 7 T 5 T 3	Adjust for maximum amplified and symmetry of IF curve.
			Repeat until no further improvement can be made.					
2	MW	Band Coverage	Radiated as small as possible.	513kHz (400 Hz, 30%, AM modulated).	Low end of dial (maximum capacity)	Output meter (VTVM) across voice coil.	Oscillator coil L 8	Adjust for maximum output.
			Same as above.	1650 kHz (400 Hz, 30%, AM modulated).	High end of dial (minimum capacity)	Same as above.	Oscillator trimmer TC5.	Same as above.
			Repeat until no further improvement can be made.					
3	MW	Tracking	Radiated as small as possible.	600 kHz (400 Hz, 30%, AM modulated).	Tune to signal.	Same as step 2	Antenna coil L 6	Same as step 2 (See NOTE A)
			Same as above.	1400 kHz (400 Hz, 30%, AM modulated).	Same as above.	Same as above.	Antenna trimmer TC 4.	Same as above.
			Repeat until no further improvement can be made.					

* However, as for the set of SUK, adjust IF to 465 kHz.

NOTE A:

Check the alignment of the receiver antenna coil by bringing a piece of ferrite (such as coil slug) near the antenna loop stick, then a piece of brass. If ferrite increases output, loop requires more inductance. If brass increase output, loop requires less inductance. Change loop inductance by sliding the bobbin toward the center of ferrite core to increase inductance, or away to decrease inductance.

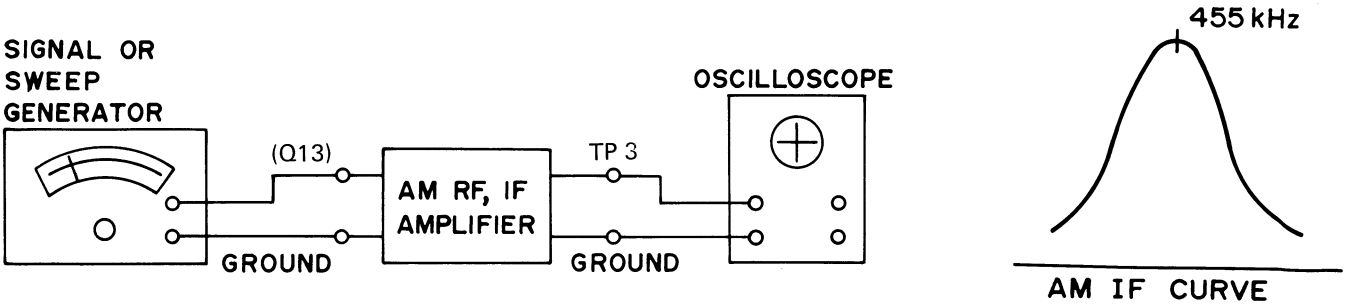


Figure 18 AM IF ALIGNMENT EQUIPMENT CONNECTIONS

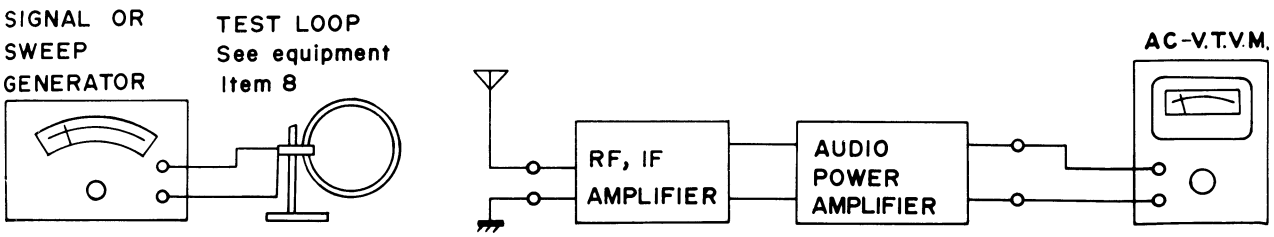


Figure 19 AM RF ALIGNMENT EQUIPMENT CONNECTIONS

FM IF ALIGNMENT

(Refer to Figure 20)

STEP	BAND	TEST STAGE	SIGNAL GENERATOR CONNECTION	SIGNAL GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
1	FM	IF	Pull out cores of T1 and T8 primary side (lower) to shift tuning.					
2	FM	IF	Through .02MFD capacitor to Q4 (base) and ground.	10.7 MHz (400 Hz, 30%, FM modulated).	Low end of dial (maximum capacity)	Oscilloscope to point TP-4 (Q6) and ground.	Tune T4, T6.	Maximum amplitude keeping 10.7 MHz marker centered and side markers symmetrical.
			Through 15 PF capacitor to TP-1 and ground.	Same as above	Same as above	Same as above	Tune T1	
			Repeat until no further improvement can be made.					
3	FM	Ratio Detector	Through 15 PF capacitor to TP-1 and ground.	10.7 MHz (unmodulated).	Same as step 1	Oscilloscope to point TP 6 and ground.	Adjust the coil at upper of T8	"S" curve must be 10.7 MHz at the center.
							Adjust the coil at lower of T8	The inclination of "S" curve must be largest and longest.
			Repeat until no further improvement can be made.					

NOTE B: In above procedure from 2 to 3 everytime check the side markers on the curve for movement up or down. Keep symmetrical position around center frequency when the sweep signal level is changed.

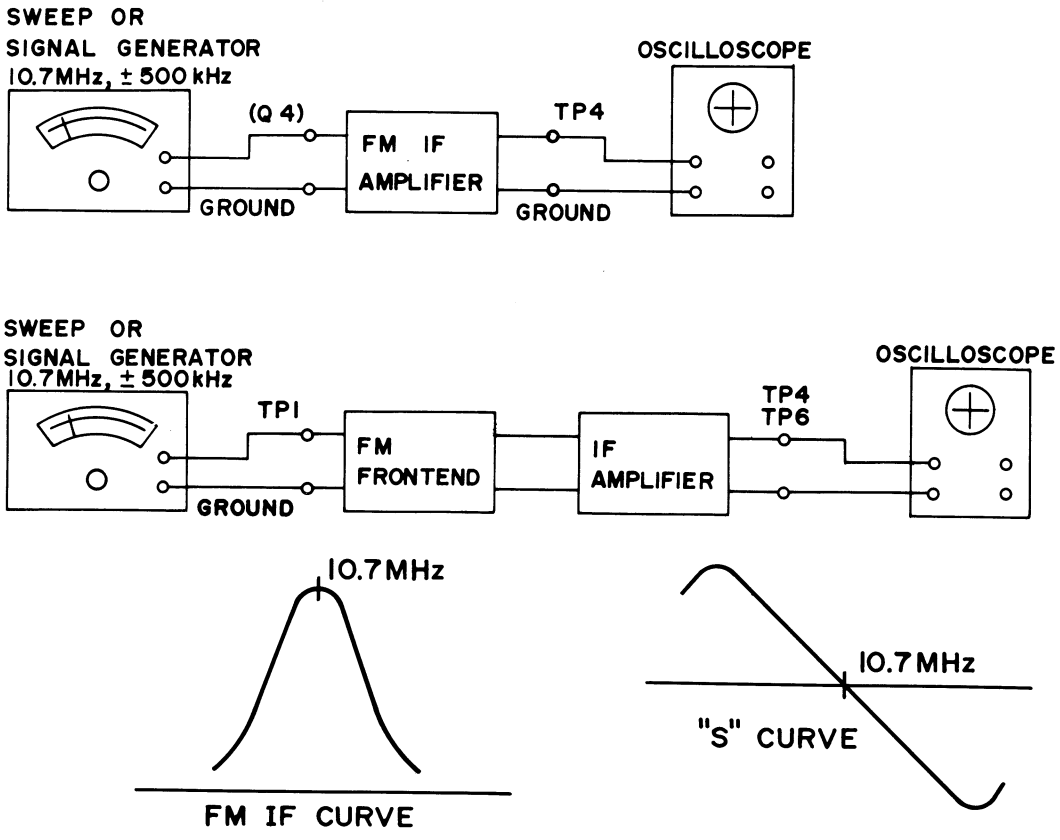


Figure 20 FM IF ALIGNMENT EQUIPMENT CONNECTIONS

FM RF ALIGNMENT

(Refer to Figure 21)

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		DIAL SETTING	INDICATOR	ADJUSTMENT	REMARKS
			CONNECTION	FREQUENCY				
1	FM	Band Coverage	Through 240 ohm matching pad to FM antenna terminal.	88 MHz 400 Hz, 30%, (22.5 kHz Dev), FM modulated.	Low end of dial (maximum capacity)	Output meter (VTVM) across voice coil.	Oscillator coil L 4.	Adjust for maximum output.
			Same as above.	105 MHz 400 Hz, 30%, (22.5 kHz Dev), FM modulated.	High end of dial (minimum capacity)	Same as above.	Oscillator trimmer TC3	Same as above.
			Repeat until no further improvement can be made.					
2	FM	Tracking	Same as step 1.	90 MHz 400 Hz, 30%, (22.5 kHz Dev), FM modulated.	Tune to signal.	Same as step 1.	Antenna coil L1 RF coil L2	Same as step 1.
			Same as above.	104 MHz 400Hz, 30% (22.5 kHz Dev), FM modulated.	Same as above.	Same as above.	Antenna trimmer TC1, RF trimmer TC2.	Same as above.
			Repeat until no further improvement can be made.					

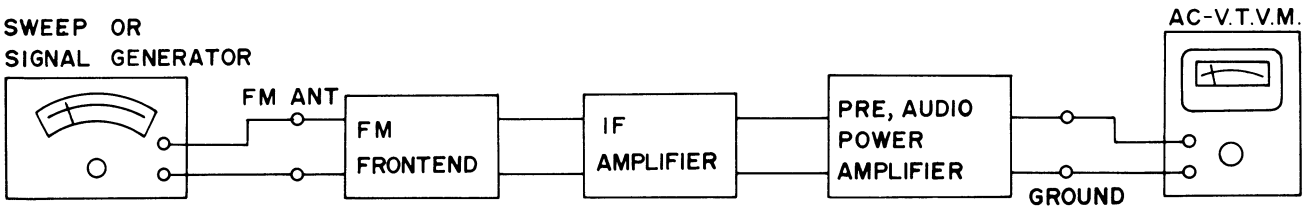


Figure 21 FM RF ALIGNMENT EQUIPMENT CONNECTIONS

THE INSTRUCTION OF FREQUENCY ADJUSTMENT

In order to comply with FTZ rule Nr. 358 S757, please fix the low end of dial frequency (87.5 MHz) and the high end of dial frequency (107.9 MHz) on FM band, by adjusting oscillation coil (L4) and oscillation trimmer (TC3), respectively, as illustrated in Figure 25 and Figure 17.

FM MPX ALIGNMENT

(Refer to Figure 22)

See Note Below before proceeding.

STEP	SIGNAL GENERATOR		DIAL SETTING	FUNCTION SETTING	SCOPE CONNECTION	ADJUSTMENT	REMARKS
	CONNECTION	FREQUENCY					
1	Signal Generator across C136 (TP-6)	67 kHz (Audio Signal level 0.3V) or as small as possible.		FM Stereo	TP-8	L13	Adjust for minimum output.
2	FM-ANT	98 MHz (19 kHz Mod. level as small as possible)	98 MHz	FM Stereo	TP-7 Sensitivity Maximum	L10 L11 Respectively	Adjust for Maximum output. Repeat 2 or 3 times.
3	FM-ANT	98 MHz (19 kHz 10% Mod.)	98 MHz	FM Stereo	TP-8	L12	Adjust for maximum.
4	Adjust the 19 kHz modulation from 0 to 10% to check the on-off action of the stereo indicator circuit.						
5	FM-ANT	98 MHz (400 Hz Ch. L only)	98 MHz	FM Stereo	Across Ch. L Output	L11 (Readjust)	Adjust for maximum. Rotate by 1/16 – 1/8 turns counter-clock-wise from the position obtained in step 2.

NOTE C: Output level of FM Signal Generator which is modulated by a FM Stereo Signal Generator, shall be 1mV.

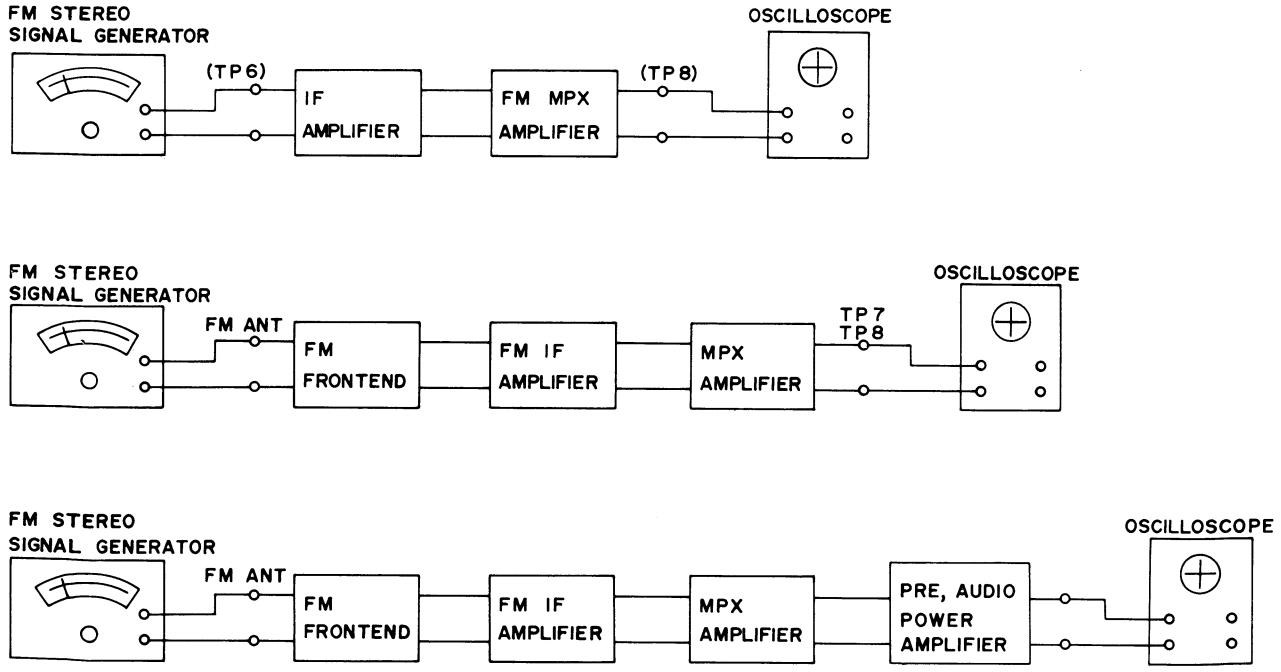


Figure 22 FM MPX ALIGNMENT EQUIPMENT CONNECTIONS

BIAS CURRENT ADJUSTMENT OF THE POWER TRANSISTOR

(Refer to Figreu 23)

If the power transistors Q49 ~ Q52 are changed, it is required to readjust those in pair so that they will operate wtth good balance.

1) Have the variable resistor R543(R544) being connected to the collector Q35 (Q36) placed at "minimum" resistance value (fulley turn it counterclockwise).

2) Adjust the variable resistor R541 (R542) being connected to the collector of Q31 (Q32) via coupling and capacitor so that the voltage between the collector of Q50 (Q51) and the ground becomes half the one between the collector Q49 (Q52) and the ground.

3) Adjust the variable resistor R543 (R544) (connected to the collector of Q35 (Q36) so that the voltage between the emitter of Q50 (Q51) and the ground becomes 7.5 mV.

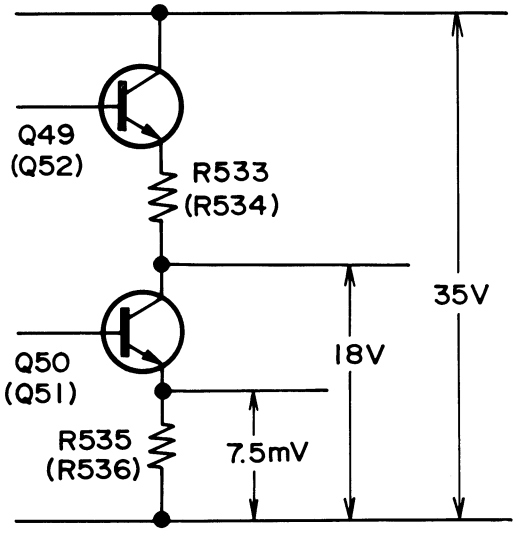


Figure 23 ADJUSTMENT OF BIAS CURRENT OF POWER TRANSISTOR

AUDIO OUTPUT TRANSISTOR REPLACEMENT (Refer to Figure 24)

If it is necessary to replace audio output transistors, then follow this procedure to prevent reoccurrence of transistor failure.

1) Carefully remove transistor and mica isolator and clean all the silicone grease off of the mica and the mounting area on the chassis. If the mica is damaged, then it must be replaced.

2) Remove the defective transistor and clean out the transistor mounting hole with "Q" tips or a pipe cleaner to remove all metal filings that may be present.

3) Put new silicone grease on the transistor mounting area of the chassis and on both sides of the mica isolator. Mount the new transistor, being careful to tighten each transistor mounting screw evenly. Driving one screw tightly and then the other is likely to cause metal filings which may damage the mica or prevent necessary heat dissipation to the chassis.

4) Before applying power to the new transistor, with an ohmmeter check to see that there is no short between the transistor case and the chassis.

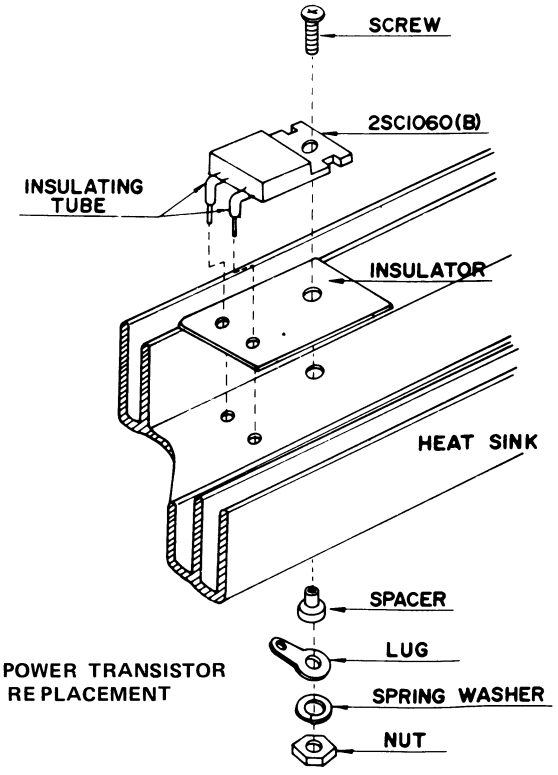


Figure 24 POWER TRANSISTOR REPLACEMENT

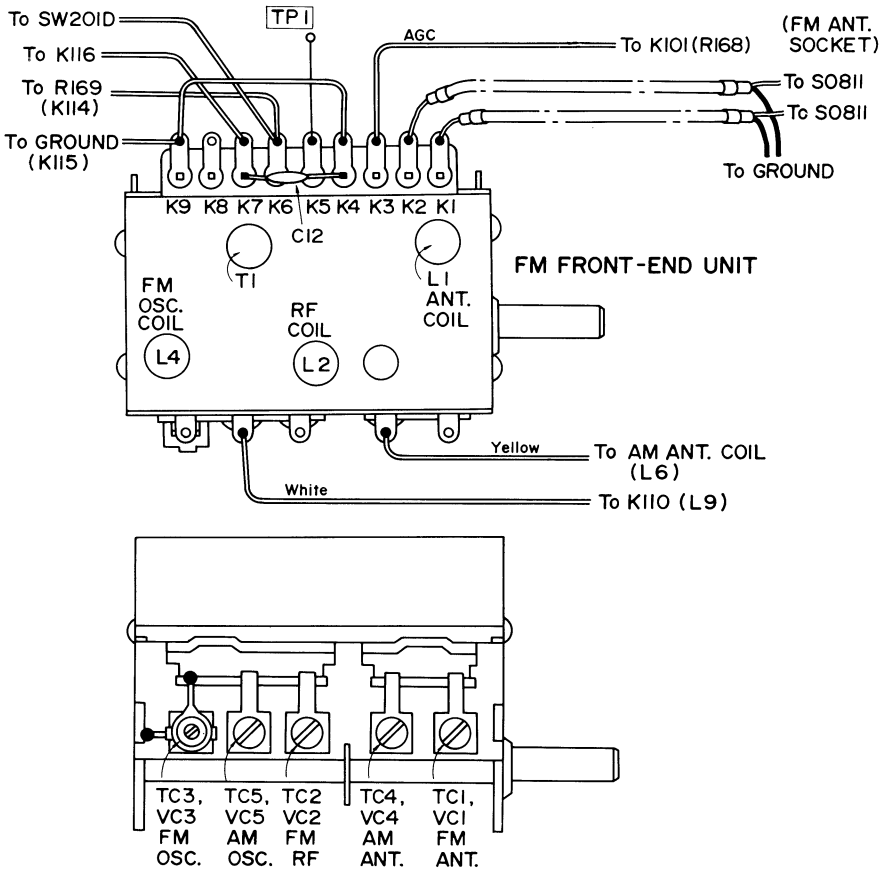


Figure 25 FM FRONT-END UNIT

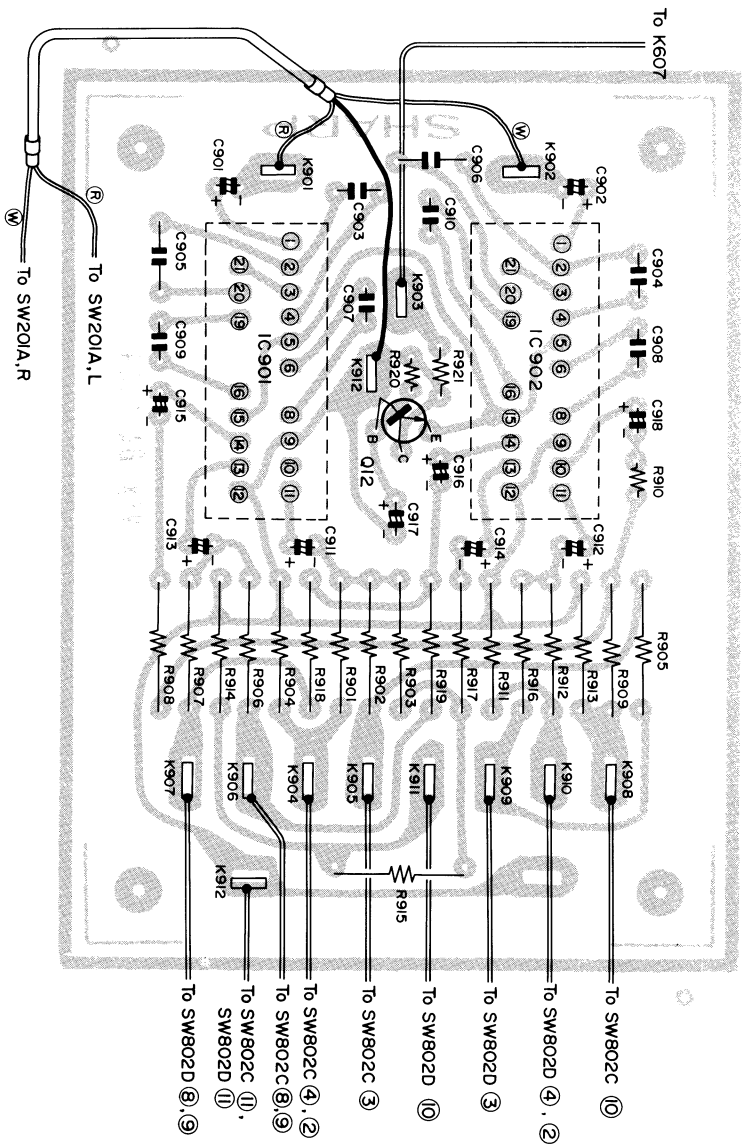


Figure 26 MATRIX CIRCUIT BOARD WIRING SIDE

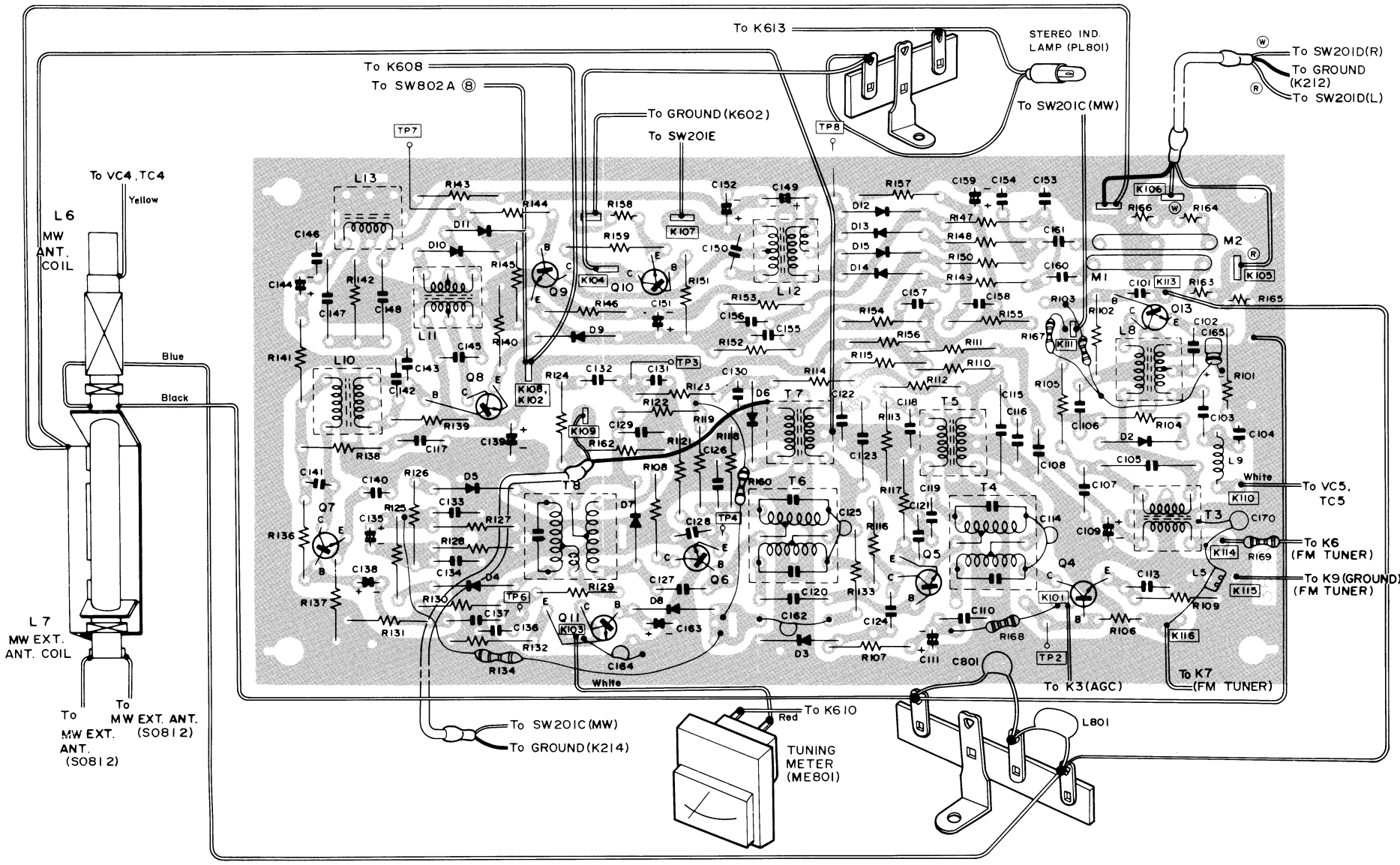


Figure 27 RF/IF/MPX CIRCUIT BOARD WIRING SIDE

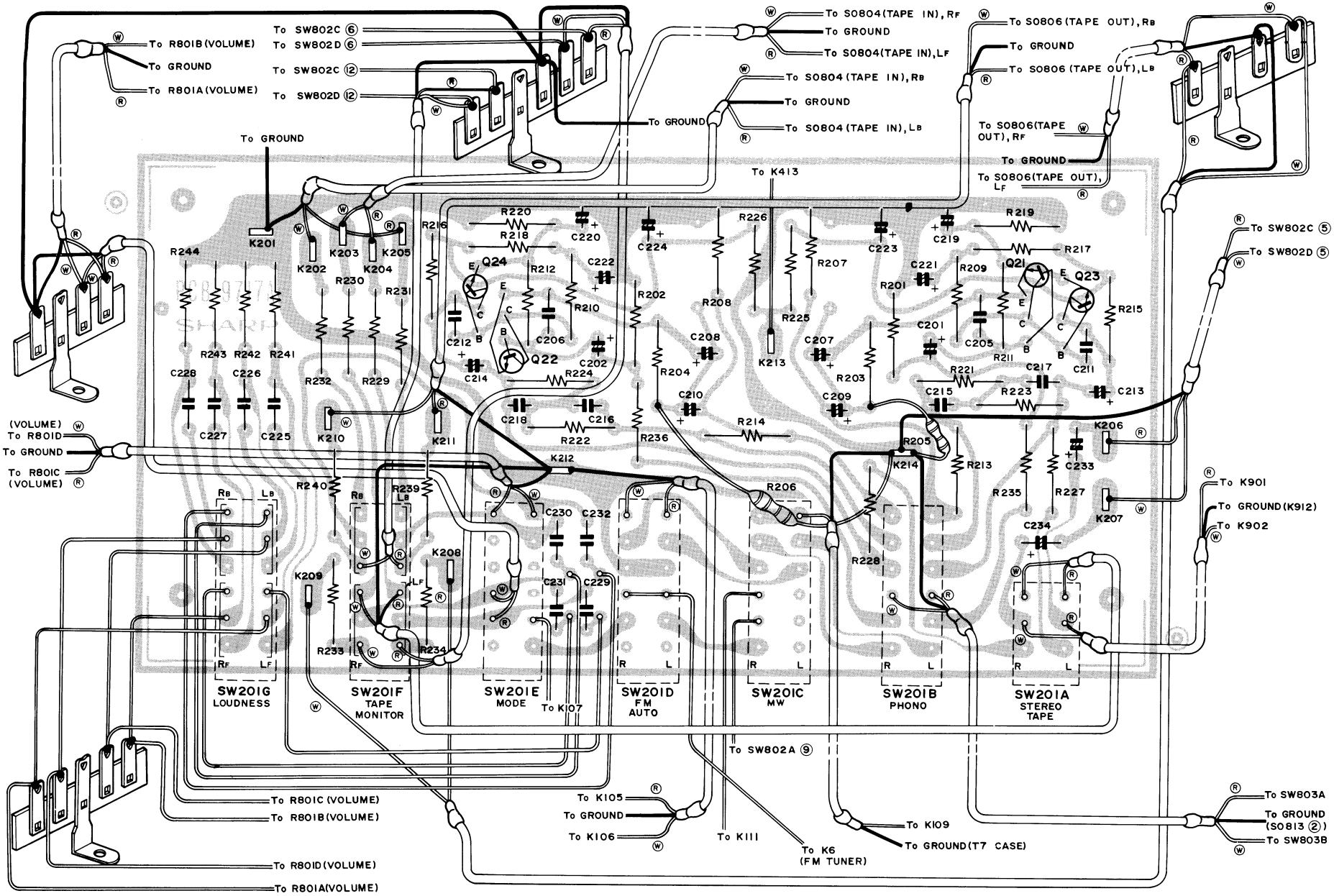


Figure 28 FUNCTION SELECTOR CIRCUIT BOARD WIRING SIDE

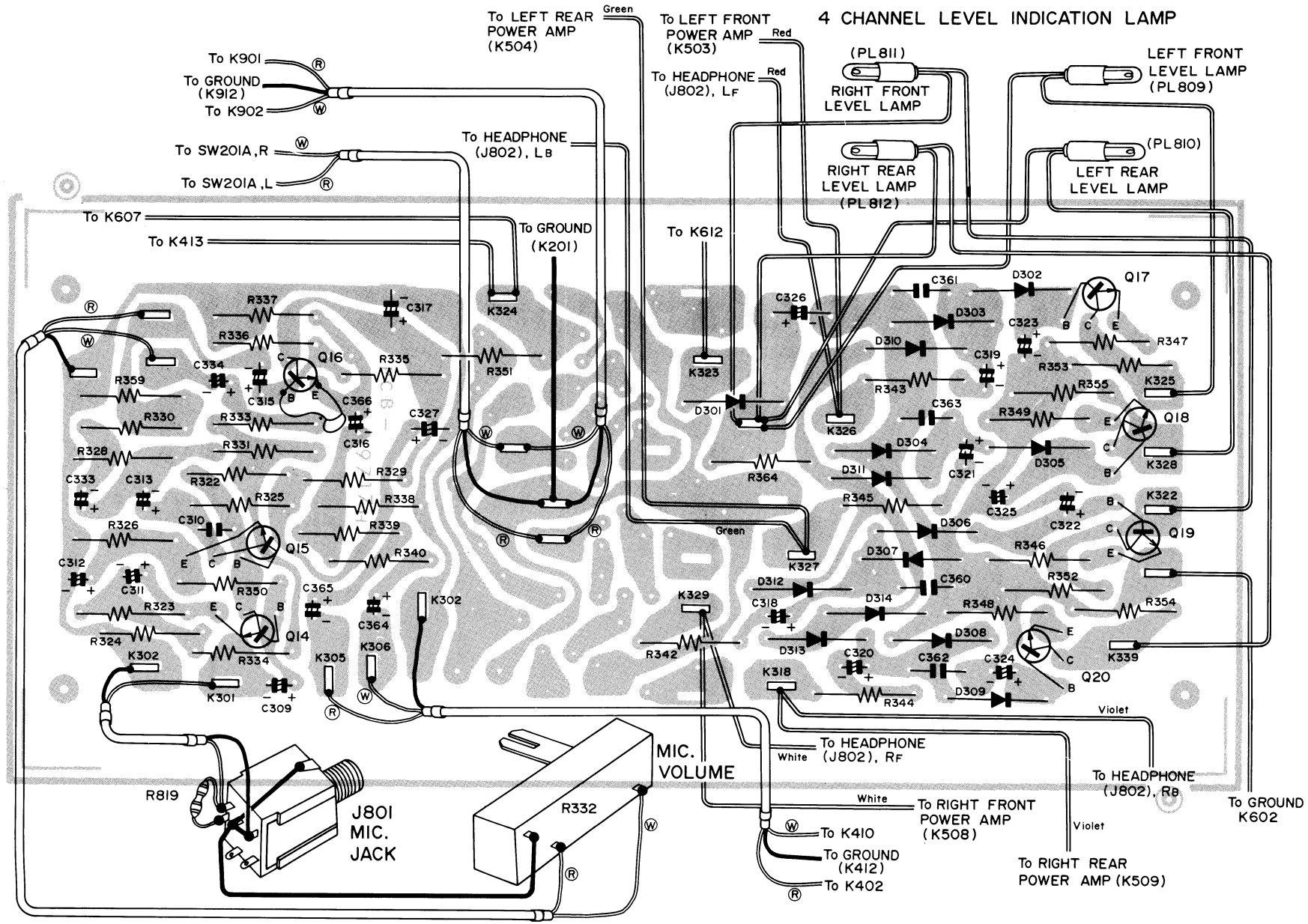


Figure 29 4 CHANNEL LEVEL INDICATION/MIC. AMP BOARD WIRING SIDE

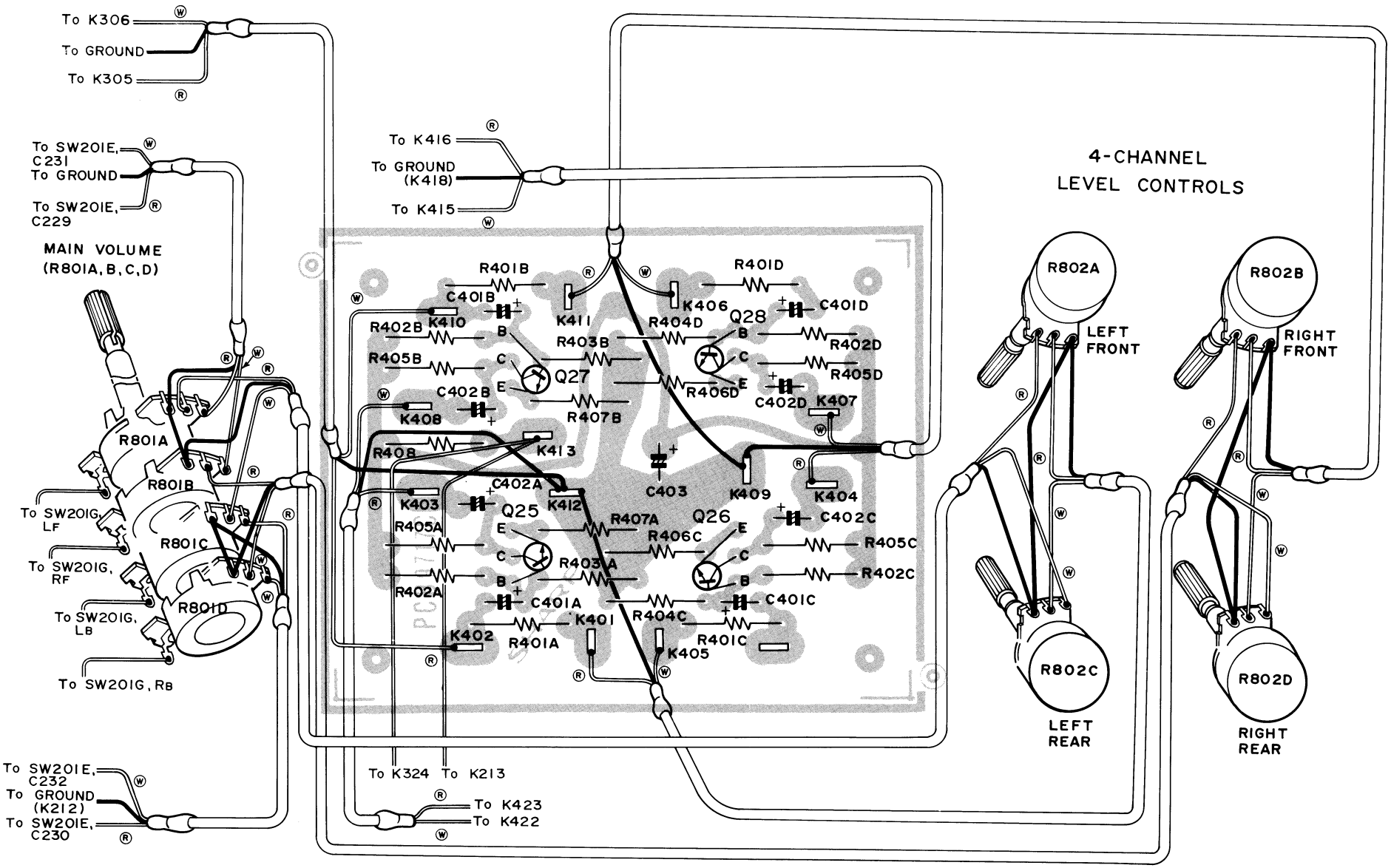


Figure 30 VOLUME AMP CIRCUIT BOARD WIRING SIDE

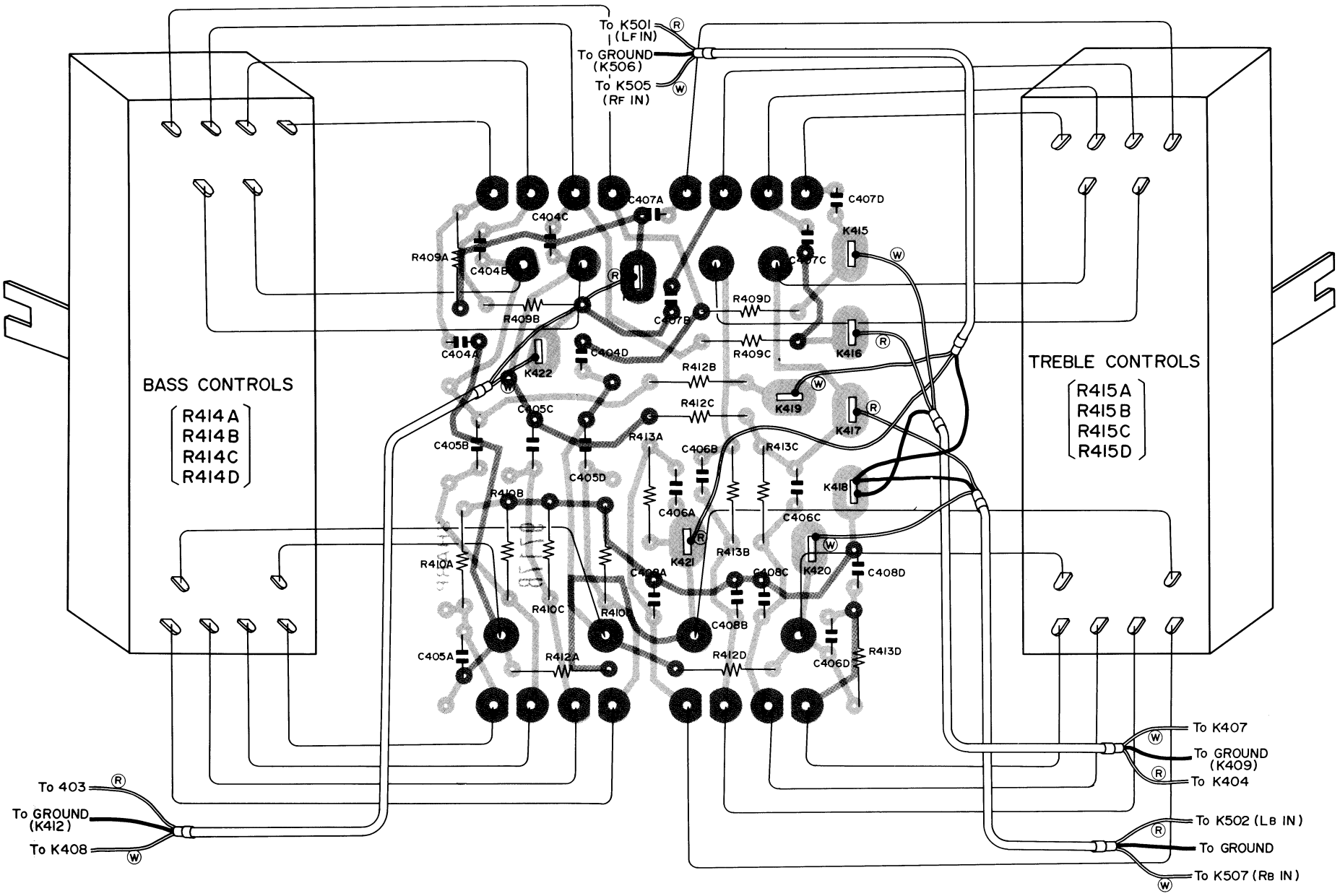


Figure 31 TONE (BASS/TREBLE) CONTROL BOARD WIRING SIDE

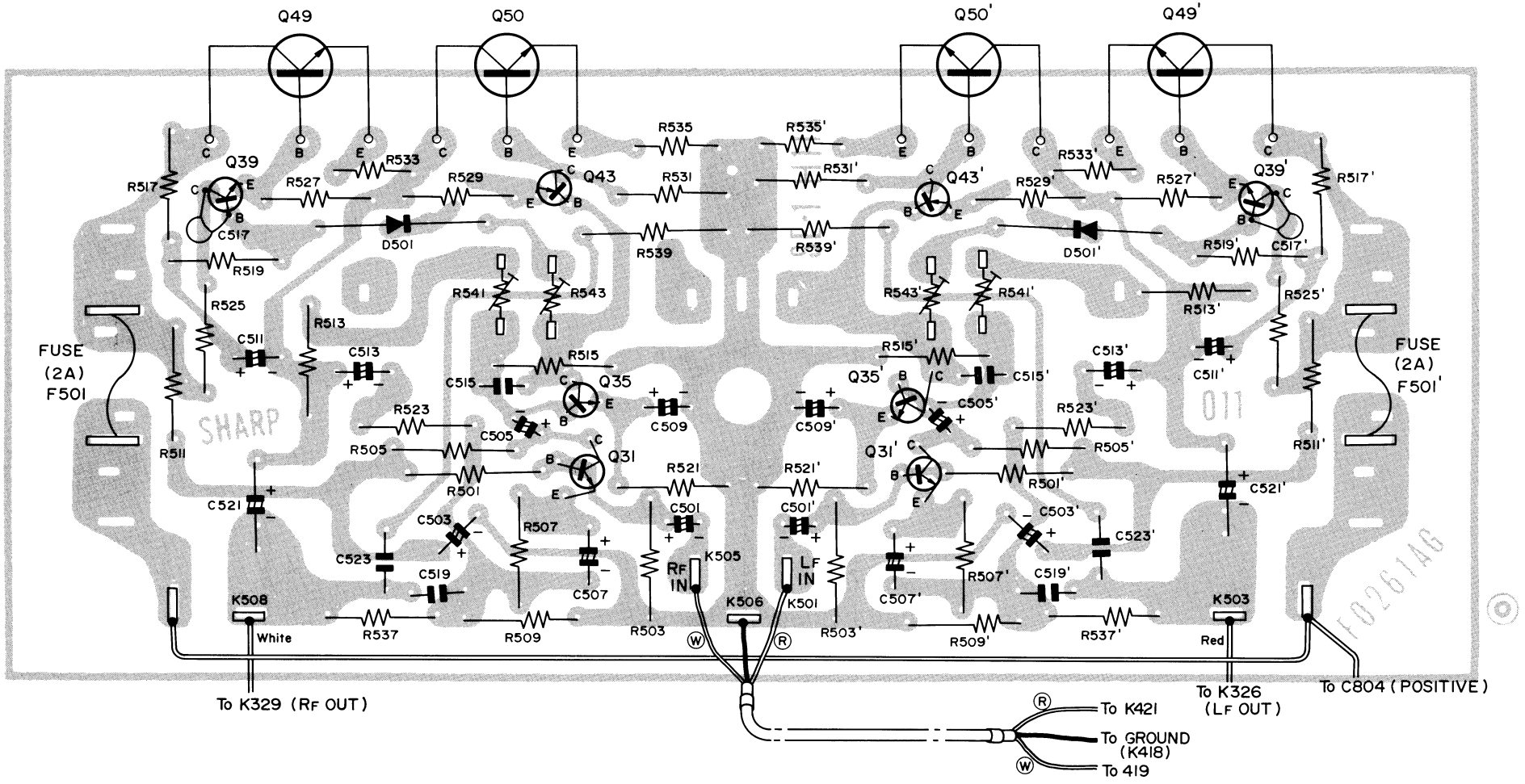
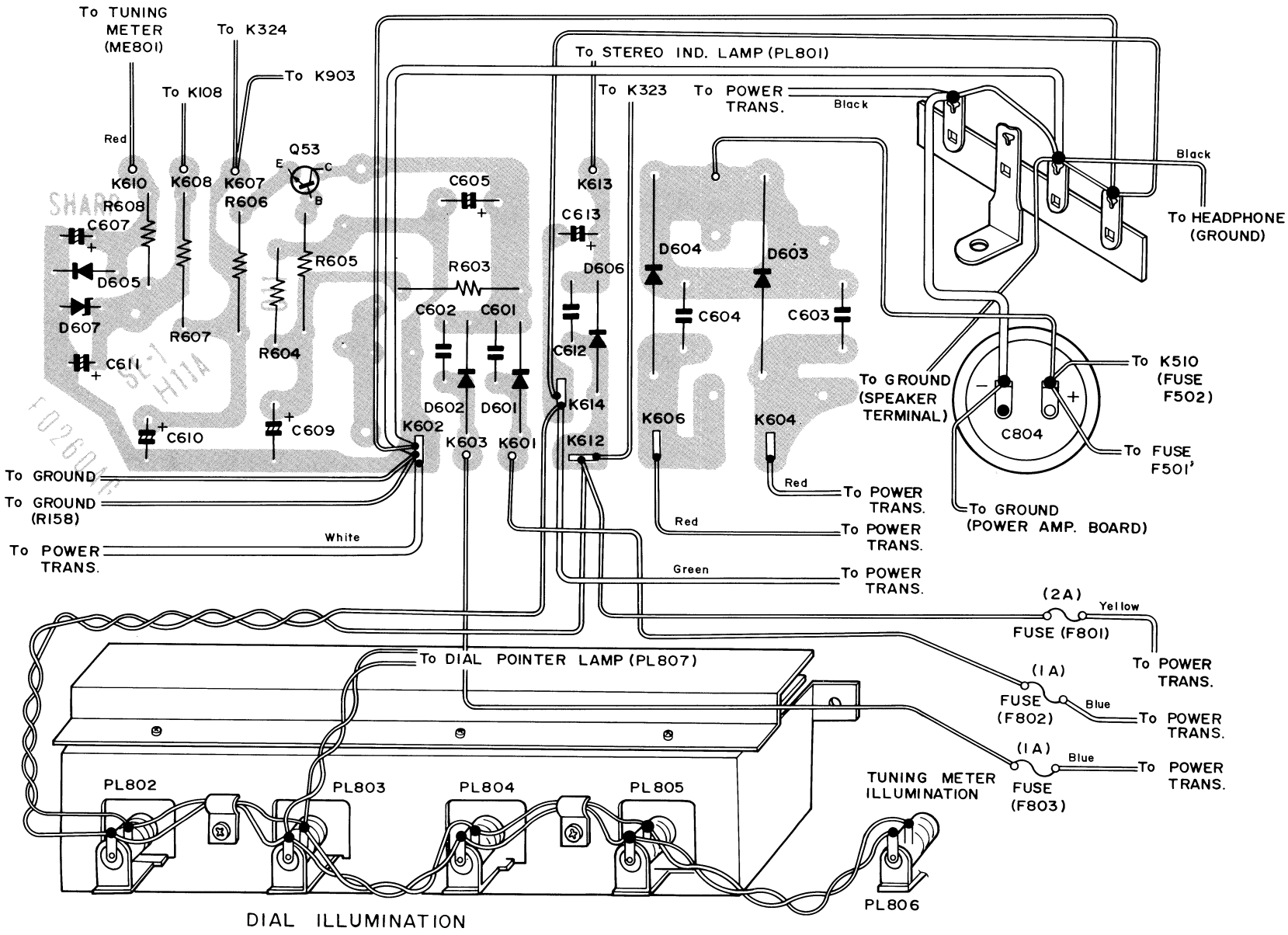


Figure 32 POWER AMP CIRCUIT BOARD WIRING SIDE



POWER SUPPLY CIRCUIT BOARD WIRING SIDE

2 CHANNEL STEREO / 4 CHANNEL MATRIX (SQ, RM, SURROUND) / 4 CHANNEL DISCRETE SELECTOR SWITCH

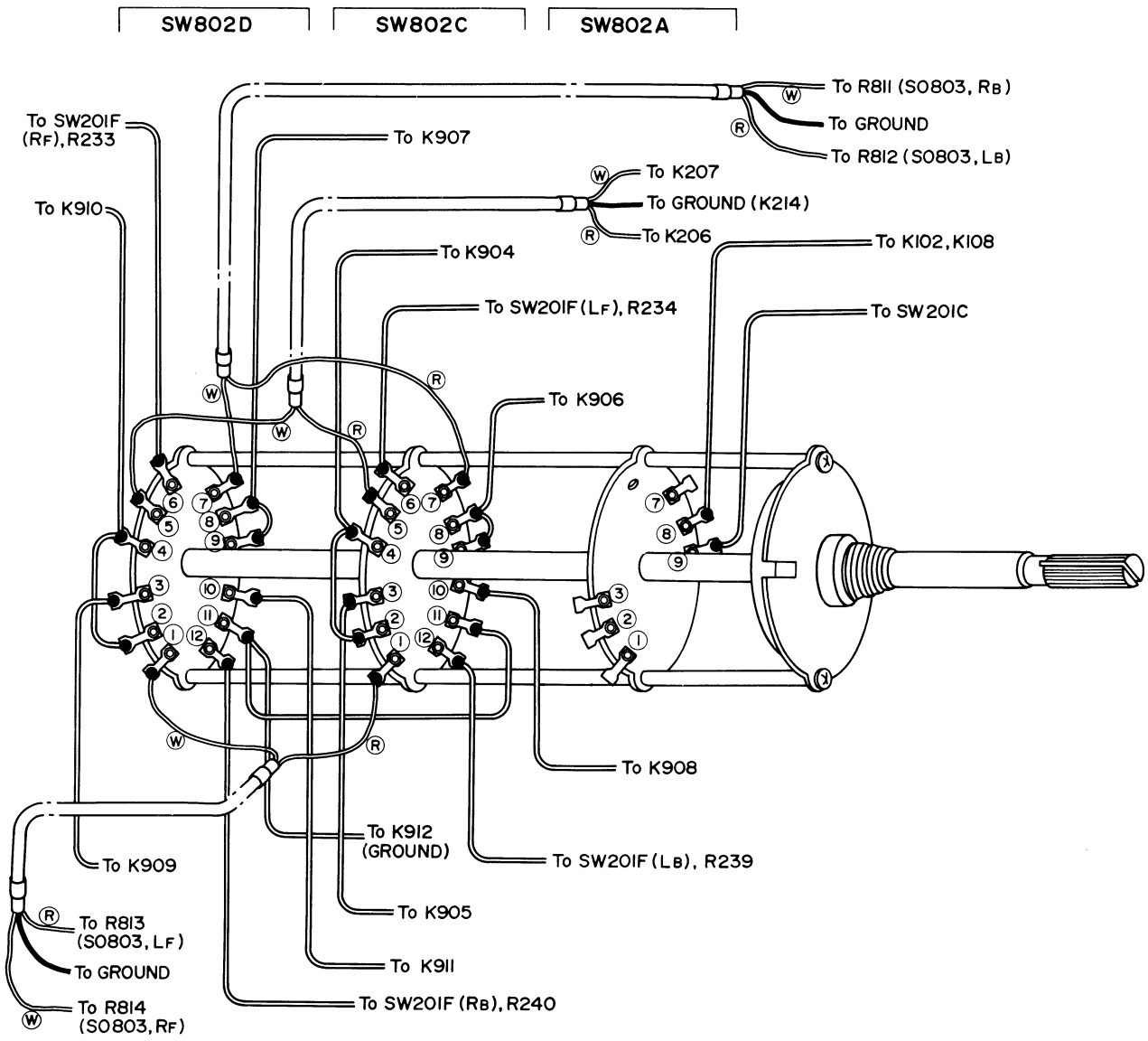


Figure 34 4 CHANNEL SELECTOR SWITCH CONNECTION

MODEL SA-507H SHARP PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. NEW PART NO.
4. DESCRIPTION

MODEL SA-507H

REF. NO.	NEW PART NO.	OLD PART NO.	DESCRIPTION		
SEMICONDUCTORS					
Q1	Not Available		Field Effect Transistor, FM RF Amplifier		
Q2	Not Available		Transistor, FM Mixer		
Q3	Not Available		Transistor, FM Oscillator		
Q4	VS2SC380H//1G	2SC380 (H)	Transistor, 1st MW/FM IF Amplifier		
Q5	VS2SC380-O/-1	2SC380 (O)	Transistor, 2nd MW/FM IF Amplifier		
Q6	VS2SC380-Y/-1	2SC380 (Y)	Transistor, 3rd FM IF Amplifier		
Q7	VS2SC458-B/-1	2SC458 (B)	Transistor, FM MPX Composite Signal Amplifier		
Q8	VS2SC458-B/-1	2SC458 (B)	Transistor, FM MPX 19 kHz Pilot Signal Amplifier		
Q9	VS2SC458-B/-1	2SC458 (B)	Transistor, FM MPX 38 kHz Sub-carrier Amplifier		
Q10	VS2SC458-B/-1	2SC458 (B)	Transistor, Stereo Indication Amplifier		
Q11	VS2SC458-B/-1	2SC458 (B)	Transistor, Tuning Meter Amplifier		
Q12	VS2SC1213AB-1	2SC1213A (B)	Transistor, Ripple Filter for MATRIX Circuit		
Q13	VS2SC380-O/-1	2SC380 (O)	Transistor, MW Converter		
Q14	VS2SC458LGC-1	2SC458LG (C)	Transistor, MIC. Amplifier		
Q15	VS2SC458LGC-1	2SC458LG (C)	Transistor, MIC. Amplifier		
Q16	VS2SC458LGC-1	2SC458LG (C)	Transistor, MIC. Amplifier		
Q17, Q18, Q19, Q20	VS2SC1335-E1E	2SC1335E	Transistor, 4 channel Level Indication		
Q21, Q22, Q23, Q24	VS2SC458LGC-1	2SC458LG (C)	Transistor, Equalizer Amplifier		
Q25, Q26, Q27, Q28	VS2SC458LGC-1	2SC458LG (C)	Transistor, Pre-Amplifier		
Q31, Q32	VS2SC458LGC-1	2SC458LG (C)	Transistor, Audio Amplifier		
O35, Q36	VS2SC1213AB-1	2SC1213A (B)	Transistor, Audio Driver		
Q39, Q40	VS2SC1213AB-4	2SC1213A (B)	Transistor, Phase Inverter (Matched Pairs)		
Q43, Q44	VS2SA673AB/-3	2SA673A (B)	Transistor, Phase Inverter (Matched Pairs)		
Q49, Q50, Q51, Q52	VS2SC1060-B1G	2SC1060 (B)	Transistor, Power Output		
Q53	VS2SC1213AB-1	2SC1213A (B)	Transistor, Ripple Filter		
IC901, IC902	RH-IZ0001SGZZ		Integrated Circuit, MATRIX (phase shifter)		
D2	VHD1N60////-1	1N60	Diode, MW Overload		
D3	VHD1N60////-1	1N60	Diode, FM AGC		
D4, D5	VHD1N60////-3	1N60 (P)	Diode, FM Detector (Matched Pair)		
D6	VHD1N60////-1	1N60	Diode, MW Detector		
D7	VHD1N60////-1	1N60	Diode, FM Overload		
D8	VHD1N60////-1	1N60	Diode, Tuning Meter		
D9	VHD1N34A///-1	1N34A	Diode, FM Stereo Indicator		
D10, D11	VHD1N34A///-1	1N34A	Diode, FM MPX 19 kHz Signal Doubler		
D12, D13, D14, D15	VHD1N34A///-1	1N34A	Diode, FM MPX Switching		

REF. NO.	NEW PART NO.	OLD APRT NO.	DESCRIPTION		
D301	VHD1S1941//-1	1S1941	Diode, Rectifier		
D302, D303, D304, D305, D306, D307, D308, D309	VHDIN34A///-1	1N34A	Diode, 4 Channel Indication		
D310, D311, D312, D313	VHD1N34A///-1	1N34A	Diode, 4 Channel Indication		
D314	VHD1S2076//-1	1S2076	Diode, Rectifier		
D501, D502	VHVHV46-R//-1	HV-46 (RED)	Diode, Thermal Compensation		
D601, D602	VHD1S1941//-1	1S-1941	Diode, Power Rectifier		
D603, D604	VHD1S2455S/1G	V05B	Diode, Power Rectifier		
D605	VHVHV23G-B/-1	HV23G (BL)	Diode, Rectifier		
D606	VHD1S1941//-1	1S-1941	Diode, Power Rectifier		
D607	VHEHZ9-CG//-1	HZ-9C (GR)	Zener Diode, Voltage Regulator		
COILS AND TRANSFORMERS					
L1	Not Available		Coil, FM Antenna		
L2	Not Available		Coil, FM RF		
L3	Not Available		Coil, FM Emitter Choke		
L4	Not Available		Coil, FM Oscillator		
L5	VP-LH3R9M0000	HL-398	Coil, Choke (3.9 μH)		
L6	RCILA0010SEZZ	4L-151A	Coil, MW Antenna		
L7	RCILA0003SEZZ	HL-140A	Coil, MW EXT. Antenna		
L8	RCILB0023SEZZ	7L-054B	Coil, MW Oscillator		
L9	VP-LH1R0M0000	HL-108M	Coil, Choke (1 μH)		
L10	RCILM0006SEZZ	4L-936P	Coil, FM MPX, 19 kHz Signal Amplifier		
L11	RCILM0005SEZZ	4L-935	Coil, FM MPX, 19 kHz Signal Amplifier		
L12	RCILM0004SEZZ	4L-934P	Coil, FM MPX, 38 kHz Signal Amplifier		
L13	RCILM0007SEZZ	4L-937P	Coil, 67 kHz Trap		
L801	VP-LH330M0000	HL-330M	Coil, MW Antenna Choke, 33 μH		
T3	RCILI0020SEZZ	4IF-782	Transformer, 1st MW IF		
T4	RCILI0046SEZZ	4IF-841	Transformer, 2nd FM IF		
T5	RCILI0020SEZZ	4IF-782	Transformer, 2nd MW IF		
T6	RCILI0031SEZZ	4IF-802	Transformer, 3rd FM IF		
T7	RCILI0021SEZZ	4IF-783	Transformer, 3rd MW IF		
T8	RCILD0007SEZZ	4IF-799	Transformer, FM Discriminator		
T801	RTRNP0290AGZZ		Transformer, Power		
CONTROLS					
R332	RVR-P1010SEZZ	8V-3471	100 K ohm (A), Microphone Volume		
R414A~D	RVR-P1011SEZZ	X8V-3473	100 K ohm (A), Bass Control		
R415A~D	RVR-P1011SEZZ	X8V-3473	100 K ohm (A), Treble Control		
R541, R542	RVR-B4010SEZZ		50 K ohm, Pot., Center Voltage Adjusting		
R543, R544	RVR-B4004SEZZ		500 ohm, Pot., Idle Current Adjusting		
R801A~D	RVR-B1027SEZZ	8V-3469	100 K ohm (B), Volume Control		
R802A~D	RVR-B1028SEZZ	8V-3475	100 K ohm (B), 4 Channel Level Control		
PACKAGED CIRCUITS					
M1, M2	RMPTA0002SEZZ	PRC-413	Capristor, 38 kHz Filter		
CAPACITORS					
VC1, VC2, VC3, VC4, VC5, TC1, TC2, TC3, TC4, TC5	Not Available		Variable Capacitor, Tuning with Trimmers TC1: FM Antenna Trimmer TC2: FM RF Trimmer TC3: FM Oscillator Trimmer TC4: MW Antenna Trimmer TC5: MW Oscillator Trimmer		

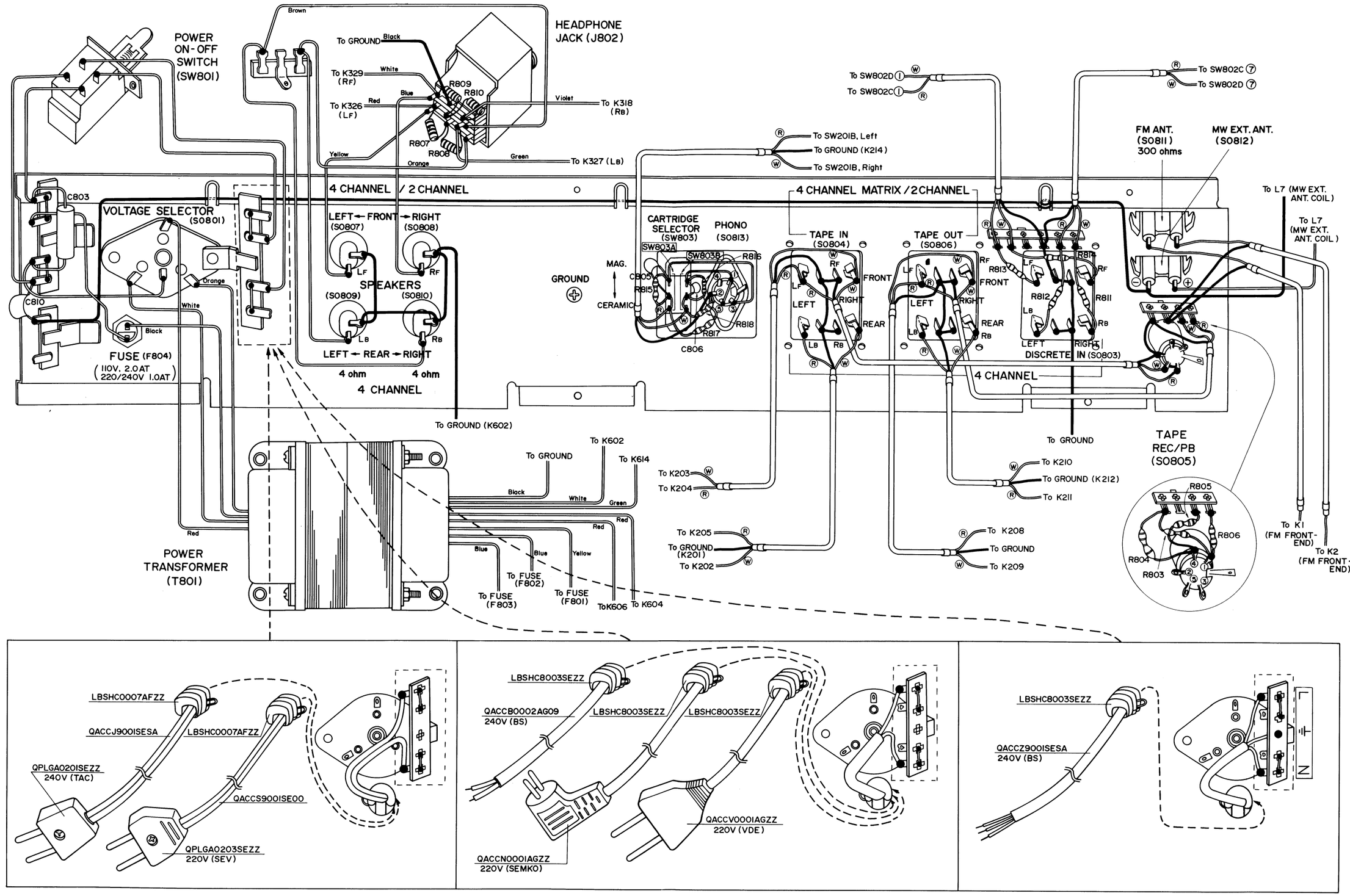


Figure 36 REAR PANEL CONNECTION DIAGRAM

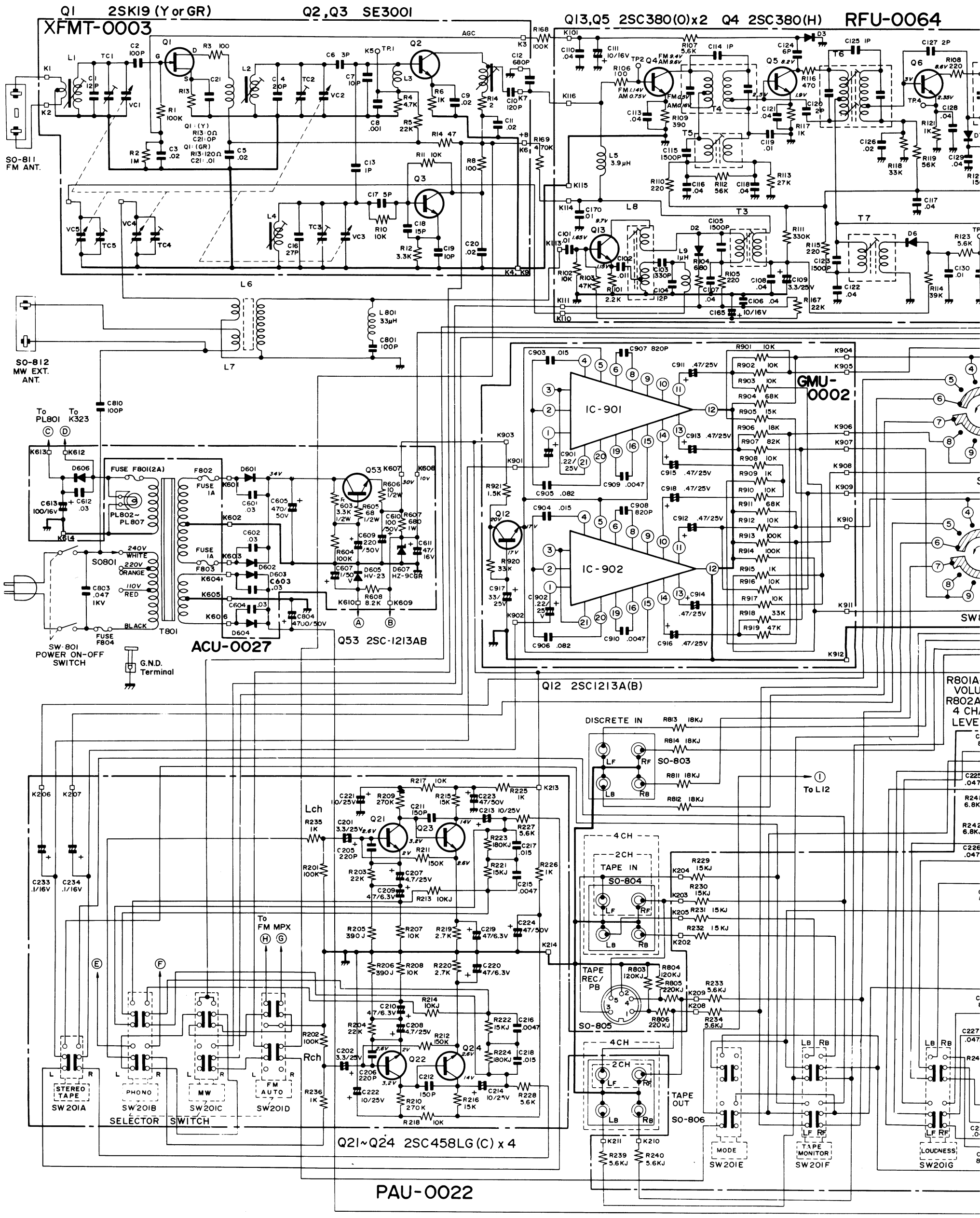


Figure 35 **SCHEMATIC DIAGRAM** (Specifications or wiring diagrams c

Q6 2SC380(Y) Q7,Q8,Q9, Q10,Q11 2SC458(B)x 5

SW802A~C: 4 CHANNEL SELECTOR SWITCH

SW802A

SW802C

SW802D

PHONO S0813

SW803A,B CARTRIDGE SELECTOR SWITCH

SW803A

SW803B

MICROPHONE J801

GMU-0003

Q14~Q16 2SC458LG(C) x 3

Q31, Q32 2SC458LG(C)x4
Q43, Q44 2SA673A(B) x 4

Q35,Q36, Q39,Q40 2SC1213A(B)x8

Q49~Q52 2SC1060(B) x8

AFU-0026

Q17~Q20 2SC1335E

FRONT

LF S0807 RF S0808

LB S0809 RB S0810

REAR

J802 HEADPHONE

R801A~D: VOLUME CONTROL
R802A~D: 4 CHANNEL LEVEL CONTROL

Q25~Q28 2SC458LG(C) x4

TON-U0027

TON-U2001

R414A~D: BASS, R415A~D: TREBLE

NOTES
1. ALL RESISTORS ARE SHOWN IN OHMS K = 10^3 M = 10^6
2. ALL CAPACITORS ARE SHOWN IN MFARDS P = MMF
3. VOLTAGE READING ARE MESUDED WITH VTVM UNDER NOSIGNAL
4. SWITCHES ARE SHOWN UNDER LINED POSITION

NO.	FUNCTION	
SW201 A~D	FUNCTION	2-CH TAPE-PHONO-AM - FMAUTO
SW201E	MODE	STEREO - MONO
SW201F	TAPE MONITOR	TAPE - SOURCE
SW201G	LOUDNESS	ON - OFF
SW801	POWER	ON - OFF
SW802	SELECTOR	4CH DISCRETE - SURROUND -RM-SQ-2CH STEREO
SW803	CARTRIDGE SELECTOR	MAG - CERAMIC

#9806 SA-507H

ing diagrams of this model are subject to change for the improvement without prior notice.)

REF. NO.	NEW PART NO.	OLD PART NO.	DESCRIPTION		
C101, C102	VCKZPU1HF103P	D-5-105P	.01MFD, 50V, +100 – 0%, Discap		
C103	VCCSPU1HL331J	DS-5-337J	330PF, 50V, ±5%, Discap		
C104	VCCSPU1HL120J	D-5-128J	12PF, 50V, ±5%, Discap		
C105	VCQSMT1HS152J	S-5-156J	1500PF, 50V, ±5%, Styrol		
C106, C107	VCKZPU1HF403Z	D-5-405Z	.04MFD, 50V, +80–20%, Discap		
C108	VCKZPU1HF403Z	D-5-405Z	.04MFD, 50V, +80–20%, Discap		
C109	VDEAAU1EW335R	CU2.5-333R	3.3MFD, 25V, +150–10%, Electrolytic		
C110	VCKZPU1HF403Z	D-5-405Z	.04MFD, 50V, +80–20%, Discap		
C111	VCEAAU1CW106Q	CU1.6-102Q	10MFD, 16V, +100–10%, Electrolytic		
C113	VCKZPU1HF403Z	D-5-405Z	.04MFD, 50V, +80–20%, Discap		
C114	VCCSPU1HL1R0C	D-5-109C	1PF, 50V, ±0.25PF, Discap		
C115	VSQSMT1HS152J	S-5-156J	1500PF, 50V, ±5%, Styrol		
C116, C117	VCKZPU1HF403Z	D-5-405Z	.04MFD, 50V, +80–20%, Discap		
C118	VC KZPU1HF403Z	D-5-405Z	.04MFD, 50V, +80–20%, Discap		
C119	VCKZPU1HF103P	D-5-105P	.01MFD, 50V, +100–0%, Discap		
C120	VCCSPU1HL2R0C	D-5-209C	2PF, 50V, ±0.25PF, Discap		
C121, C122	VCKZPU1HF403Z	D-5-405Z	.04MFD, 50V, +80–20%, Discap		
C123	VCQSMT1HS152J	S-5-156J	1500PF, 50V, ±5%, Styrol		
C124	VCCSPU1HL6R0C	D-5-609C	6PF, 50V, ±0 25PF, Discap		
C215	VCCSPU1HL1R0C	D-5-109C	1PF, 50V, ±0.25PF, Discap		
C126	VCKZPU1HF203Z	D-5-205Z	.02MFD, 50V, +80–20%, Discap		
C127	VCCSPU1HL2R0C	D-5-209C	2PF, 50V, ±0.25PF, Discap		
C128, C129	VCKZPU1HF403Z	D-5-405Z	.04MFD, 50V, +80–20%, Discap		
C130, C131	VCQYKU1HM103K	ML-5-105K	.01MFD, 50V, ±10%, Mylar		
C132	VCQYKU1HM333M	ML-5-335M	.033MFD, 50V, ±20%, Mylar		
C133, C134	VCCSPU1HL331J	DS-5-337J	330PF, 50V, ±5%, Discap		
C135	VCEAAU1CW106Q	CU1.6-102Q	10MFD, 16V, +100–10%, Electrolytic		
C136	VCCSPU1HL221J	D-5-227J	220PF, 50V, ±5%, Discap		
C137	VCCSPU1HL331J	DS-5-337J	330PF, 50V, ±5%, Discap		
C138	VCEAAU1CW106Q	CU1.6-102Q	10MFD, 16V, +100–10%, Electrolytic		
C139	VCEAAU1CW227Q	CU1.6-221Q	220MFD, 16V, +100–10%, Electrolytic		
C140	VC QYKU1HM472K	ML-5-476K	.0047MFD, 50V, ±10%, Mylar		
C141	VCQSMT1HS103J	S-5-105J	10000PF , 50V, ±5%, Styrol		
C142	VCKZPU1HF103P	D-5-105P	.01MFD, 50V, +100–0%, Discap		
C143	VCCSPU1HL471K	D-5-477K	470PF, 50V, ±10%, Discap		
C144	VCEAAU1CW106Q	CU1.6-102Q	10MFD, 16V, +100–10%, Electrolytic		
C145	VCQSMT1HS103J	S-5-105J	10000PF, 50V, ±5%, Styrol		
C146	VCCSPU1HL331J	DS-5-377J	330PF, 50V, ±5%, Discap		
C147, C148	VCQSMT1HS102J	S-5-106J	1000PF, 50V, ±5%, Styrol		
C149	VCEAAU1CW106Q	CU1.6-102Q	10MFD, 16V, +100–10%, Electrolytic		
C150	VCQSMT1HS472J	S-5-476J	4700PF, 50V, ±5%, Styrol		
C151	VCEAAU1CW106Q	CU1.6-102Q	10MFD, 16V, +100–10%, Electrolytic		
C152	VCEAAU1EW106Q	CU2.5-102Q	10MFD, 25V, +100–10%, Electrolytic		
C153, C154	VCQYKU1HM102K	ML-5-106K	.001MFD, 50V, ±10%, Mylar		
C155, C156	VCCSPU1HL221J	D-5-227J	220PF, 50V, ±5%, Discap		
C157, C158	VCCSPU1HL221J	D-5-227J	220PF, 50V, ±5%, Discap		
C159	VCEAAU1CW106Q	CU1.6-102Q	10MFD, 16V, +100–10%, Electrolytic		
C160, C161	VCQYKU1HM473M	ML-5-475M	.047MFD, 50V, ±20%, Mylar		
C162	VCCSPU1HL470J	D-5-478J	47PF, 50V, ±5%, Discap		
C163	VCAAKU1AA105X		1MFD, 10V, +40–20%, Aluminum Electrolytic		
C164	VCKZPU1HF403Z	D-5-405Z	.04MFD, 50V, +80–20%, Discap		
C165	VCEAAU1CW106Q	CU1.6-102Q	10MFD, 16V, +100–10%, Electrolytic		
C170	VCKZPU1HF103P	D-5-105P	.01MFD, 50V, +100–0%, Discap		
C201, C202	VCEAAU1EW335R	CU2.5-333R	3.3MFD, 25V, +150–10%, Electrolytic		
C205, C206	VCCSPU1HL221K	D-5-227K	220PF, 50V, ±10%, Discap		
C207, C208	VCEAAU1EW475R	CU2.5-473R	4.7MFD, 25V, +150–10%, Electrolytic		
C209, C210	VCEAAU0JW476Q	CU-06-472Q	47MFD, 6.3V, +100–10%, Electrolytic		
C211, C212	VCCSPU1HL151K	D-5-157K	150PF, 50V, ±10%, Discap		
C213, C214	VCEAAU1EW106Q	CU2.5-102Q	10MFD, 25V, +100–10%, Electrolytic		
C 215, C216	VCQYKU1HM472K	ML-5-476K	.0047MFD, 50V, ±10%, Mylar		
C217, C218	VCQYKU1HM153K	ML-5-155K	.015MFD, 50V, ±10%, Maylar		
C219, C220	VCEAAU0JW476Q	C U-06-472Q	47MFD, 6.3V, +100–10%, Electrolytic		
C221, C222	VCEAAU1EW106Q	CU2.5-102Q	10MFD, 25V, +100–10%, Electrolytic		
C223, C224	VCEAAU1HW476Q	CU-5-472Q	47MFD, 50V, +100–10%, Electrolytic		

REF. NO.	NEW PART NO.	OLD PART NO.	DESCRIPTION		
C225, C226, C227, C228	VCQYKU1HM473K	ML-5-475K	.047MFD, 50V, ±10%, Mylar		
C229, C230, C231, C232	VCKYPU1HB821K	D-5-827K	820PF, 50V, ±10%, Discap		
C233, C234	VCAAKU1CA104M	AD1.6-104M	.1MFD, 16V, ±20%, Aluminum Electrolytic		
C309	VCAAKU1AA105M	AD-1-103M	1MFD, 10V, ±20%, Aluminum Electrolytic		
C310	VCCSPU1HL470K	D-5-478K	47PF, 50V, ±10%, Discap		
C311, C312	VCEAAU1AW336Q	CU-1-332Q	33MFD, 10V, +100–10%, Electrolytic		
C313	VCEAAU1EW475R	CU2.5-473R	4.7MFD, 25V, +150–10%, Electrolytic		
C315	VCAAKU1EA474M	AD2.5-474M	.47MFD, 25V, ±20%, Aluminum Electrolytic		
C316	VCEAAU1EW106Q	CU2.5-102Q	10MFD, 25V, +100–10%, Electrolytic		
C317	VCEAAU1VW107Q	CU3.5-101Q	100MFD, 35V, +100–10%, Electrolytic		
C318, C319, C320, C321	VCAAKU1EA334M	AD2.5-334M	.33MFD, 25V, ±20%, Aluminum Electrolytic		
C322, C323, C324, C325	VCAAKU1EA224M	AD2.5-224M	.22MFD, 25V, ±20%, Aluminum Electrolytic		
C326	VCEAAU1AW108Q	CU-1-100Q	1000MFD, 10V, +100–10%, Electrolytic		
C327	VCEAAU1EW476Q	CU2.5-472Q	47MFD, 25V, +100–10%, Electrolytic		
C333, C334	VCEAAU1HW105R	CU-5-103R	1MFD, 50V, +150–10%, Electrolytic		
C360, C361, C362, C363	VCQYKU1HM683K	ML-5-685K	.068MFD, 50V, ±10%, Mylar		
C364, C365	VCAAKU1AA224M	AD-1-224M	.22MFD, 10V, ±20%, Aluminum Electrolytic		
C366	VCCSPU1HL470K	D-5-478K	47PF, 50V, ±10%, Discap		
C401A~D	VCAAAU1EB224K		.22MFD, 25V, ±10%, Aluminum Electrolytic		
C402A~D	VCAAAU1EB474M		.47MFD, 25V, ±20%, Aluminum Electrolytic		
C403	VCEAAU1VW107Q	CU3.5-101Q	100MFD, 35V, +100–10%, Electrolytic		
C404A~D	VCQYKU1HM103K	ML-5-105K	.01MFD, 50V, ±10%, Mylar		
C405A~D	VCKZPU1NB 104M	D-1.2-104M	.1MFD, 12V, ±20%, Discap		
C406A~D	VCKYPU1HB561M	D-5-567M	560PF, 50V, ±20%, Discap		
C407A~D	VCQYKU1HM102K	ML-5-106K	.001MFD, 50V, ±10%, Mylar		
C408A~D	VCQYKU1HM153K	ML-5-155K	.015MFD, 50V, ±10%, Mylar		
C501, C502	VCAAAU1EB474M		.47MFD, 25V, ±20%, Aluminum Electrolytic		
C503, C504	VCEAAU1HW476Q	CU-5-472Q	47MFD, 50V, +100–10%, Electrolytic		
C505, C506	VCEAAU1HW105R	CU-5-103R	1MFD, 50V, +150–10%, Electrolytic		
C507, C508	VCEAAU1AW227Q	CU-1-221Q	220MFD, 10V, +100–10%, Electrolytic		
C509, C510	VCEAAU1AW477Q	CU-1-471Q	470MFD, 10V, +100–10%, Electrolytic		
C511, C512	VCEAAU1HW106Q	CU-5-102Q	10MFD, 50V, +100–10%, Electrolytic		
C513, C514	VCEAAU1HW476Q	CU-5-472Q	47MFD, 50V, +100–10%, Electrolytic		
C515, C516	VCCSPU1HL151K	D-5-157K	150PF, 50V, ±10%, Discap		
C517, C518	VCCSPU1HL221K	D-5-227K	220PF, 50V, ±10%, Discap		
C519, C520	VCCSPU1HL151K	D-5-157K	150PF, 50V, ±10%, Discap		
C521, C522	VCEAAU1EW158Q	CU2.5-150Q	1500MFD, 25V, +100–10%, Electrolytic		
C523, C524	VCQYKU1HM473K	ML-5-475K	.047MFD, 50V, ±10%, Mylar		
C601, C602	VCKZPU1MF303P	D-7.5-305P	.03MFD, 75V, +100–0%, Discap		
C603, C604	VCKZPU1MF 303P	D-7.5-305P	.03MFD, 75V, +100–0%, Discap		
C605	VCEAAU1HW477Q	CU-5-471Q	470MFD, 50V, +100–10%, Electrolytic		
C606					
C607	VCEAAU1HW105R	CU-5-103R	1MFD, 50V, +150–10%, Electrolytic		
C608					
C609	VCEAAU1HW227Q	CU-5-221Q	220MFD, 50V, +100–10%, Electrolytic		
C610	VCEAAU1HW107Q	CU-5-101Q	100MFD, 50V, +100–10%, Electrolytic		
C611	VCEAAU1CW476Q	CU1.6-472Q	47MFD, 16V, +100–10%, Electrolytic		
C612	VCKZPU1MF303P	D-7.5-305P	.03MFD, 75V, +100–0%, Discap		
C613	VCEAAU1CW107Q	CU1.6-101Q	100MFD, 16V, +100–10%, Electrolytic		
C801	VCCSPU1HL101K	D-5-107K	100PF, 50V, ±10%, Discap		
C803	VCPOAT3AC473M	OL-1K-475M	.047MFD, 1000V, ±20%, Oil		
C804	RC-EZ0083AGZZ		4700MFD, 50V, Electrolytic		
C805, C806	VCCSPU1HL471K	D-5-477K	470PF, 50V, ±10%, Discap		
C810	RC-KZ0071AGZZ	D-107MSEV	100PF, AC250V, Discap		
C901, C902	VCAAKU1EA224M		.22MFD, 25V, ±20%, Aluminum Electrolytic		
C903, C904	VCQYKU1HM153K	ML-5-155K	.015MFD, 50V, ±10%, Mylar		
C905, C906	VCQYKU1HM823K	ML-5-825K	.082MFD, 50V, ±10%, Mylar		
C907, C908	VCKYPU1HB821K		820PF, 50V, ±10%, Discap		
C909, C910	VCQYKU1HM472K	ML-5-476K	.0047MFD, 50V, ±10%, Mylar		
C911, C912	VCAAKU1EA474M	AD2.5-474M	.47MFD, 25V, ±20%, Aluminum Electrolytic		

REF. NO.	NEW PART NO.	OLD PART NO.	DESCRIPTION		
C913, C914	VCAAKU1EA474M	AD2.5-474M	.47MFD, 25V, ±20%, Aluminum Electrolytic		
C915, C916	VCAAKU1EA474M	AD2.5-474M	.47MFD, 25V, ±20%, Aluminum Electrolytic		
C917	VCEAAU1EW336Q	CU2.5-332Q	33MFD, 25V, +100–10%, Electrolytic		
C918	VCAAKU1EA474M	AD2.5-474M	.47MFD, 25V, ±20%, Aluminum Electrolytic		

RESISTORS

All resistors ¼W, ±10%, Carbon unless otherwise noted.

R101	VRD-ST2EY222J	¼SA2.2KJ	2.2K ohm, ¼W, ±5%, Carbon		
R102	VRD-ST2EY103J	¼SA-10KJ	10K ohm, ¼W, ±5%, Carbon		
R103	VRD-ST2EY473J	¼SA-47KJ	47K ohm, ¼W, ±5%, Carbon		
R104	VRD-ST2EY681J	¼SA-680J	680 ohm, ¼W, ±5%, Carbon		
R105	VRD-ST2EY221J	¼SA-220J	220 ohm, ¼W, ±5%, Carbon		
R106	VRD-ST2EY101J		100 ohm, ¼W, ±5%, Carbon		
R107	VRC-MT2EG562K	¼M-5.6KK	5.6K ohm		
R108	VRC-MT2EG221K	¼M-220K	220 ohm		
R109	VRD-ST2EY391J	¼SA-390J	390 ohm ¼W, ±5%, Carbon		
R110	VRD-ST2EY221J	¼SA-220J	220 ohm, ¼W, ±5%, Carobn		
R111	VRD-ST2EY334J	¼SA330KJ	330K ohm, ¼W, ±5%, Carbon		
R112	VRD-ST2EY563J		56K ohm, ¼W, ±5%, Carbon		
R113	VRD-ST2EY273J		27K ohm, ¼W, ±5%, Carbon		
R114	VRD-ST2EY393J	¼SA-39KJ	39K ohm, ¼W, ±5%, Carbon		
R115	VRD-SE2EY221J	¼SA-220J	220 ohm,¼W, ±5%, Carbon		
R116	VRD-ST2EY471J	¼SA-470J	470 ohm, ¼W, ±5%, Carbon		
R117	VRD-ST2EY102J	¼SA-1KJ	1K ohm, ¼W, ±5%, Carbon		
R118	VRC-MT2EG333K	¼M-33KK	33K ohm		
R119	VRC-MT2EG563K	¼M-56KK	56K ohm		
R121	VRC-MT2EG102K	¼M-1KK	1K ohm		
R122	VRC-MT2EG151K	¼4M-150K	150 ohm		
R123	VRD-ST2EY562J	¼SA5.6KJ	5.6K ohm, ¼W, ±5%, Carbon		
R124	VRD-ST2EY153J	¼SA-15KJ	15K ohm, ¼W, ±5%, Carbon		
R125, R126	VRC-MT2EG102K	¼M-1KK	1K ohm		
R127, R128	VRC-MT2EG562K	¼M-5.6KK	5.6K ohm		
R129	VRC-MT2EG101K	¼M-100K	100 ohm		
R130	VRC-MT2EG223K	¼M-22KK	22K ohm		
R131	VRC-MT2EG473K	¼M-47KK	47K ohm		
R132	VRC-MT2EG182K	¼M-1.8KK	1.8K ohm		
R133	VRC-MT2EG223K	¼M-22KK	22K ohm		
R134	VRC-MT2EG683K	¼M-68KK	68K ohm		
R136	VRC-MT2EG334K	¼M-330KK	330K ohm		
R137	VRC-MT2EG471K	¼M-470K	470 ohm		
R138	VRC-MT2EG392K	¼M-3.9KK	3.9K ohm		
R139	VRC-MT2EG474K	¼M-470KK	470K ohm		
R140	VRC-MT2EG331K	¼M-330K	330 ohm		
R141	VRC-MT2EG272K	¼M-2.7KK	2.7K ohm		
R142	VRC-MT2EG274K	¼M-270KK	270K ohm		
R143	VRC-MT2EG562K	¼M-5.6KK	5.6K ohm		
R144	VRC-MT2EG472K	¼M-4.7KK	4.7K ohm		
R145	VRC-MT2EG103K	¼M-10KK	10K ohm		
R146	VRC-MT2EG102K	¼M-1KK	1K ohm		
R147, R148	VRC-MT2EG473K	¼M-47KK	47K ohm		
R149, R150	VRC-MT2EG473K	¼M-47KK	47K ohm		
R151	VRC-MT2EG222K	¼M-2.2KK	2.2K ohm		
R152, R153	VRC-MT2EG224K	¼M-220KK	220K ohm		
R154, R155	VRC-MT2EG224K	¼M-220KK	220K ohm		
R156	VRC-MT2EG682K	¼M-6.8KK	6.8K ohm		
R157	VRC-MT2EG272K	¼M-2.7KK	2.7K ohm		
R158	VRC-MT2EG150K	¼M-15K	15K ohm		
R159	VRC-MT2EG331K	½M-330K	330 ohm, ½W, ±10%, Carbon		
R160	VRC-MT2EG155K	¼M-1.5MK	1.5Meg ohm		
R162	VRD-ST2EY152J	¼SA1.5KJ	1.5K ohm, ¼W, ±5%, Carbon		
R163, R164	VRD-SU2EY823J	¼SU-82KJ	82K ohm, ¼W, ±5%, Carbon		
R165, R166	VRD-SU2EY183J	¼SU-18KJ	18K ohm, ¼W, ±5%, Carbon		
R167	VRD-ST2EY223J	¼SA-22KJ	22K ohm, ¼W, ±5%, Carbon		

MODEL SA-507H

SHARP PARTS LIST

REF. NO.	NEW PART NO.	OLD PART NO.	DESCRIPTION		
R168	VRD-ST2EY104K	¼SA100KK	100K ohm		
R169	VRD-ST2EY474K	¼SA470KK	470K ohm		
R201, R202	VRD-ST2EY104K	¼SA100KK	100K ohm		
R203, R204	VRD-ST2EY223K	¼SA-22KK	22K ohm		
R205, R206	VRD-ST2EY391J	¼SA-390J	390 ohm, ¼W, ±5%, Carbon		
R207, R208	VRD-ST2EY103K	¼SA-10KK	10K ohm		
R209, R210	VRD-ST2EY274K	¼SA270KK	270K ohm		
R211, R212	VRD-ST2EY154K	¼SA150KK	150K ohm		
R213, R214	VRD-ST2EY103J	¼SA-10KJ	10K ohm, ¼W, ±5%, Carbon		
R215, R216	VRD-ST2EY153K	¼SA-15KK	15K ohm		
R217, R218	VRD-ST2EY103K	¼SA-10KK	10K ohm		
R219, R220	VRD-ST2EY272K	¼SA2.7KK	2.7K ohm		
R221, R222	VRD-ST2EY153J	¼SA-15KJ	15K ohm, ¼W, ±5%, Carbon		
R223, R224	VRD-ST2EY184J	¼SA180KJ	180K ohm, ¼W, ±5%, Carobn		
R225, R226	VRD-ST2EY102K	¼SA-1KK	1K ohm		
R227, R228	VRD-ST2EY562K	¼SA5.6KK	5.6K ohm		
R229, R230	VRD-ST2EY153J	¼SA-15KJ	15K ohm, ¼W, ±5%, Carbon		
R231, R232	VRD-ST2EY153J	¼SA-15KJ	15K ohm, ¼W, ±5%, Carbon		
R233, R234	VRD-ST2EY562J	¼SA5.6KJ	5.6K ohm, ¼W, ±5%, Carbon		
R235, R236	VRD-ST2EY102K	¼SA-1KK	1K ohm		
R239, R240	VRD-ST2EY562J	¼SA5.6KJ	5.6K ohm, ¼W, ±5%, Carbon		
R241, R242, R243, R244	VRD-ST2EY682J	¼SA6.8KJ	6.8K ohm, ¼W, ±5%, Carbon		
R322	VRD-ST2EY474J	¼SA470KJ	470K ohm, ¼W, ±5%, Carbon		
R323	VRD-ST2EY103J	¼SA-10KJ	10K ohm, ¼W, ±5%, Carbon		
R324	VRD-ST2EY102J	¼SA-1KJ	1K ohm, ¼W, ±5%, Carbon		
R325	VRD-ST2EY562J	¼SA5.6KJ	5.6K ohm, ¼W, ±5%, Carbon		
R326	VRD-ST2EY681J	¼SA-680J	680 ohm, ¼W, ±5%, Carbon		
R328	VRD-ST2EY473J	¼SA-47KJ	47K ohm, ¼W, ±5%, Carbon		
R329	VRD-ST2EY222J	¼SA2.2KJ	2.2K ohm, ¼W, ±5%, Carbon		
R330	VRD-ST2EY273J	¼SA-27KJ	27K ohm, ¼W, ±5%, Carbon		
R331	VRD-ST2EY393J	¼SA-39KJ	39K ohm, ¼W, ±5%, Carbon		
R333	VRD-ST2EY122J	¼SA1.2KJ	1.2K ohm, ¼W, ±5%, Carbon		
R334	VRD-ST2EY153J	¼SA-15KJ	15K ohm, ¼W, ±5%, Carobn		
R335, R336	VRD-ST2EY823J	¼SA-82KJ	82K ohm, ¼W, ±5%, Carbon		
R337	VRD-ST2EY472J	¼SA4.7KJ	4.7K ohm, ¼W, ±5%, Carbon		
R338	VRD-ST2EY103J	¼SA-10KJ	10K ohm, ¼W, ±5%, Carbon		
R339, R340	VRD-ST2EY153J	¼SA-15KJ	15K ohm, ¼W, ±5%, Carbon		
R342, R343	VRD-ST2EY681J	¼SA-680J	680 ohm, ¼W, ±5%, Carbon		
R344, R345	VRD-ST2EY681J	¼SA-680J	680 ohm, ¼W, ±5%, Carbon		
R346, R347	VRD-ST2EY100J	¼SA-10J	10 ohm, ¼W, ±5%, Carbon		
R348, R349	VRD-ST2EY100J	¼SA-10J	10 ohm, ¼W, ±5%, Carbon		
R350	VRD-ST2EY154J	¼SA150KJ	150K ohm, ¼W, ±5%, Carbon		
R351	VRD-ST2EY222J	¼SA2.2KJ	2.2K ohm, ¼W, ±5%, Carbon		
R352, R353	VRD-ST2EY471J	¼SA-470J	470 ohm, ¼W, ±5%, Carbon		
R354, R355	VRD-ST2EY471J	¼SA-470J	470 ohm, ¼W, ±5%, Carbon		
R359	VRD-ST2EY103J	¼SA-10KJ	10K ohm, ¼W, ±5%, Carbon		
R364	VRD-ST2EY332J	¼SA3.3KJ	3.3K ohm, ¼W, ±5%, Carbon		
R401A~D	VRD-ST2EY223K	¼SA-22KK	22K ohm		
R402A~D	VRD-ST2EY824K	¼SA820KK	820K ohm		
R403A, B	VRD-ST2EY563K	¼SA-56KK	56K ohm		
R404C, D	VRD-ST 2EY563K	¼SA-56KK	56K ohm		
R405A~D	VRD-ST2EY153K	¼SA-15KK	15K ohm		
R406C, D	VRD-ST2EY122J	¼SA1.2KJ	1.2K ohm, ¼W, ±5%, Carbon		
R407A, B	VRD-ST2EY561J	¼SA-560J	560 ohm, ¼W, ±5%, Carbon		
R408	VRD-ST2EY222K	¼SA2.2KK	2.2K ohm		
R409A~D	VRD-ST2EY273K	¼SA-27KK	27K ohm		
R410A~D	VRD-ST2EY472K	¼SA4.7KK	4.7K ohm		
R412A~D	VRD-ST2EY682K	¼SA6.8KK	6.8K ohm		
R413A~D	VRD-ST2EY393K	¼SA-39KK	39K ohm		
R501, R502	VRD-ST2EY334K	¼SA330KK	330K ohm		
R503, R504	VRD-ST2EY683K	¼SA-68KK	68K ohm		
R505, R506	VRD-ST2EY103K	¼SA-10KK	10K ohm		
R507, R508	VRC-MT2EG332K	¼M-3.3KK	3.3K ohm		
R509, R510	VRC-MT2EG220J	¼M-22J	22 ohm, ¼W, ±5%, Carbon		

REF. NO.	NEW PART NO.	OLD PART NO.	DESCRIPTION		
R511, R512	VRC-MT2EG103K	¼M-10KK	10K ohm		
R513, R514	VRC-MT2EG473K	¼M-47KK	47K ohm		
R515, R516	VRC-MT2EG103K	¼M-10KK	10K ohm		
R517, R518	VRC-MT2EG392K	¼M-3.9KK	3.9K ohm		
R519, R520	VRC-MT2EG392K	¼M-3.9KK	3.9K ohm		
R521, R522	VRC-MT2EG821K	¼M-820K	820 ohm		
R523, R524	VRC-MT2EG682J	¼M-6.8KJ	6.8K ohm, ¼W, ±5%, Carbon		
R525, R526	VRC-MT2EG120K	¼M-12K	12 ohm		
R527, R528	VRC-MT2EG101K	¼M-100K	100 ohm		
R529, R530	VRC-MT2EG120K	¼M-12K	12 ohm		
R531, R532	VRC-MT2EG101K	¼M-100K	100 ohm		
R533, R534, R535, R536	VRF-GU3ABR47K	1NPC-0.47K	.47 ohm, 1W, ±10%, Metallic		
R537, R538	VRC-MT2EG822J	¼M-8.2KJ	8.2K ohm, ¼W, ±5%, Carbon		
R539, R540	VRC-MT2HG4R7K	½M-4.7K	4.7 ohm, ½W, ±10%, Carbon		
R603	VRC-MT2HG332K	½M-3.3KK	3.3K ohm, ½W, ±10%, Carbon		
R604	VRC-MT2EG104K	¼M-100KK	100K ohm		
R605	VRC-MT2HG680K	½M-68K	68 ohm, ½W, ±10%, Carbon		
R606	VRC-MT2HG100K	½M-10K	10 ohm, ½W, ±10%, Carbon		
R607	VRS-PT3AB681K	1PO-680K	680 ohm, 1W, ±10%, Oxide Film		
R608	VRC-MT2EG822K	¼M-82.KK	8.2K ohm		
R803, R804	VRD-ST2EY124J	¼SA120KJ	120K ohm, ¼W, ±5%, Carbon		
R805, R806	VRD-ST2EY224J	¼SA220KJ	220K ohm, ¼W, ±5%, Carbon		
R807, R808	VRC-MT2HG391K	½M-390K	390ohm, ½W, ±10%, Carbon		
R809, R810	VRC-MT2HG391K	½M-390K	390 ohm, ½W, ±10%, Carbon		
R811, R812, R813, R814	VRD-ST2EY183J	¼SA-18KJ	18K ohm, ¼W, ±5%, Carbon		
R815, R816	VRD-ST2EY104J	¼SA100KJ	100K ohm, ¼W, ±5%, Carbon		
R817, R818	VRD-ST2EY152J	¼SA1.5KJ	1.5K ohm, ¼W, ±5%, Carbon		
R819	VRD-ST2EY104K	¼SA100KK	100K ohm		
R901, R902	VRD-ST2EY103J	¼SA-10KJ	10K ohm, ¼W, ±5%, Carbon		
R903	VRD-ST2EY103J	¼SA-10KJ	10K ohm, ¼W, ±5%, Carbon		
R904	VRD-ST2EY683J	¼SA-68KJ	68K ohm, ¼W, ±5%, Carbon		
R905	VRD-ST2EY153J	¼SA-15KJ	15K ohm, ¼W, ±5%, Carbon		
R906	VRD-ST2EY183J	¼SA-18KJ	18K ohm, ¼W, ±5%, Carbon		
R907	VRD-ST2EY823J	¼SA-82KJ	82K ohm, ¼W, ±5%, Carbon		
R908	VRD-ST2EY103J	¼SA-10KJ	10K ohm, ¼W, ±5%, Carbon		
R909	VRD-ST2EY102J	¼SA-1KJ	1K ohm, ¼W, ±5%, Carbon		
R910	VRD-SU2EY103J	¼SU-10KJ	10K ohm, ¼W, ±5%, Carbon		
R911	VRD-ST2EY683J	¼SA-68KJ	68K ohm, ¼W, ±5%, Carbon		
R912	VRD-ST2EY103J	¼SA-10KJ	10K ohm, ¼W, ±5%, Carbon		
R913, R914	VRD-ST2EY104J	¼SA100KJ	100K ohm, ¼W, ±5%, Carbon		
R915	VRD-ST2EY102J	¼SA-1KJ	1K ohm, ¼W, ±5%, Carbon		
R916, R917	VRD-ST2EY103J	¼SA-10KJ	10K ohm, ¼W, ±5%, Carbon		
R918	VRD-ST2EY333J	¼SA-33KJ	33K ohm, ¼W, ±5%, Carbon		
R919	VRD-ST2EY473J	¼SA-47KJ	47K ohm, ¼W, ±5%, Carbon		
R920	VRD-SU2EY333J	¼SU-33KJ	33K ohm, ¼W, ±5%, Carbon		
R921	VRD-SU2EY152J	¼SU1.5KJ	1.5K ohm, ¼W, ±5%, Carbon		

MISCELLANEOUS

	HDALP0057AGSA	DIAL-9806	Dial Scale		
	PSLDP3004SE00	SYAKO-9717	Bracket, Dial Scale		
	PSPAG0006SEZZ	GOMUSPACER	Spacer, Dial Scale		
	NDRM-0001SGZZ		Drum, Dial Cord		
	HSSND1002SESA	SISIN-3775	Dial Pointer with Lamp		
	PCOVP1008SEZZ	SSHEET3775	Sheet, Dial Pointer		
	PSPAS0002SE00	SPAC-9717B	Spacer, Jacks		
	PSPAS0006SEZZ	SPAC-9717A	Spacer, Function Selector Switches		
	GMADD0025SESA	ACRYL-9717	Plate, Dial Front, Transparent		
	PCOVP9006SE00	SHEET-9717	Felt, Tone Controls		
	HPNLC1164AGSA	C-ASY9806L	Metal, Decoration, Bass/Treble/Mic. Volume		
	HPNLC1163AGSA	IND-P9806	Front Panel, Operation		
	HPNLC3039SESA	C-ASY9717R	Metal, Decoration, 4 channel Level Controls		

SHARP PARTS LIST MODEL SA-507H

REF. NO.	NEW PART NO.	OLD PART NO.	DESCRIPTION		
	PMLT-0029SE00		Cushion, Front Panel		
	JKNBP1022SESA	8K-445	Knob, Bass, Treble and Mic. Volume		
	PCOVU9036AG00	SHEET9717B	Felt, Function Selector Switches		
	JKNBM1004SESA	8K-447	Knob, 2 channel Tape, Phono, MW, FM, MODE, Tape Monitor, Loudness and Power ON-OFF		
	JKNBN3007SESA	8K-493	Knob, Volume Control		
	JKNBN3006SESA	8K-491	Knob, Tuning		
	JKNBN3005SESA	8K-483	Knob, 4 channel Level Controls		
	JKNBN1106SESA	8K-473	Knob, 4 channel Selector		
	GCOVH9008AG00	KC-139	Felt, 4 channel Selector Knob		
	GCAB-0110AGSA		Cabinet		
	LX-BZ3003SEFD		Screw with Washer, Bottom Chassis Retaining		
	GFTAR6117AGZZ	U-BUTA9806	Cabinet, Rear		
	QPLGS0504AGZZ	PG-453	Plug, Short Pin, Phono		
	LANGQ0323AG00		Bracket, PHONO Socket and Cartridge Selector Switch		
	LANGQ0327AGZZ		Bracket, Fuse Holder		
	QFSHC2001SEZZ	FH-127	Fuse Holder, Plastic		
	QLUGL0303CEZZ	LG-301	Terminal Strip, 3 Lug, Ground and MW RF		
	QLUGL0501SEZZ	LG-973	Terminal Strip, 5 Lug		
	QLUGL0401SEZZ	LG-409	Terminal Strip, 4 Lug, Volume Control		
	QLUGL0302SEZZ	LG-311	Terminal Strip, 3 Lug		
	QLUGL0402AGZZ	LG-426Z	Terminal Strip, 4 Lug, Power Supply		
	PSLDP7010SEZZ	PC-463	Lamp Holder, Tuning Meter		
	PSLDP7007SEZZ	PC-441	Lamp Holder, Dial Illumination		
	NFLYT0001SEZZ	XFLY-325	Flywheel, Dial Cord Drive		
	LCHSM0113AGZZ	X2MC-9764	Main Chassis		
	LANGR0206AGZZ	VCA-155	Bracket, FM FRONT-END Unit, Left		
	LANGR0197AGZZ	VCA-153	Bracket, FM FRONT-END Unit, Right		
	LANGQ0301AGZZ		Bracket, MATRIX Circuit Board		
	DUNTZ0002TE01		MATRIX Circuit Unit		
	RTUNF0003AGZZ		FM FRONT-END Unit		
	DUNTV2001TE01		Tone (Bass/Treble) Control Unit		
	DUNTA0027AG01		Power Supply Unit		
	DUNTZ0003TE01		4 Channel Level Indication/Mic. Amplifier Unit		
	DUNTT0027AG01		Volume Amplifier Unit		
	DUNTR0064TEZZ		RF/IF/MPX Circuit Unit		
	DUNTL0022AG02		Function Selector Switch Board Unit		
	DUNTB0026AG01		Power (Front) Amplifier Unit		
	DUNTB0026AG02		Power (Rear) Amplifier Unit		
PL802~ PL806	RLMPN0004SEZZ	PL-567	Lamp, Dial Illumination and Tuning Meter		
ME801	RMTRL0069AGZZ		Tuning Meter		
PL801	RLMPM0006SE00	PL-2515UL	Lamp, Stereo Indication		
PL812	RLMPM0006SE00	PL-2515UL	Lamp, 4 channel Level Indication, Black		
PL809	RLMPM0006SE02	PL-2515UL	Lamp, 4 channel Level Indication, Red		
PL810	RLMPM0006SE04	PL-2515UL	Lamp, 4 channel Level Indication, Yellow		
PL811	RLMPM0006SE09	PL-2515UL	Lamp, 4 channel Level Indication, White		
	LANGF5032SEZZ	SUB-A9717B	Bracket, Rear Plate		
	LSTPK0003SEZZ	COILSTOPER	Stopper, MW EXT. Antenna Coil		
	PSLDC3006AGZZ		Shield Plate, Function Selector Board		
	QFS-C202CAGNI		Fuse, 2A, SEMKO		
	QFS-C102CAGNI		Fuse, 1A, SEMKO		
	QACCJ9001SESA	ACC-207	Cord, AC Power without Plug, 2 para (TAC)		
	QPLGA0201SEZZ	PG-171	Plug, AC Cord (TAC)		
	LBSHC0007AFZZ	BUS-SR4P-4	Bushing, AC Cord		
	QACCS9001SE00	ACC-325SEV	Cord, AC Power without Plug, 2 para (SEV)		
	QPLGA0203SEZZ	PG-493	Plug, AC Cord (SEV)		
	LBSHC8003SEZZ		Bushing, AC Cord		
	QACCB0002AG09	ACC-331BS	Cord, AC Power without Plug, 2 para (BS)		
	QACCN0001AGZZ		Cord, AC Power with Plug, 2 para (SEMKO)		
	QACCV0001AGZZ		Cord, AC Power with Plug, 2 para (VDE)		
	QACCZ9001SESA	ACC-297	Cord, AC Power without Plug, 3 para (BS)		
	QLUGL0201SEZZ	LG-213	Terminal Strip, 2 Lug, Stereo Indication Lamp		

SHARP

PARTS LIST

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REF. NO.	NEW PART NO.	OLD PART NO.	DESCRIPTION		
	QLUGL0203CEZZ	LG-201	Terminal Strip, 2 Lug, Speaker		
	QLUGL0202AGZZ		Terminal Strip, 2 Lug, Power Supply Circuit		
	RMICD0095AGZZ		Microphone		
	QANTW0009AG01	ANT-W1RE37	FM Antenna		
SO801	QSOCE0301SEZZ	SO-037	Socket, Voltage Selector		
SO803	QSOCJ0401SEZZ	SO-989	Socket, Discrete IN		
SO804	QSOCJ0401SEZZ	SO-989	Socket, Tape IN		
SO805	QSOCD0502SEZZ	SO-971	Socket, Tape REC/PB(DIN)		
SO806	QSOCJ0401SEZZ	SO-989	Socket, Tape OUT		
SO807, SO808, SO809, SO810	QSOCD0201SEZZ	SO-035	Socket, Speaker		
SO811	QSOCJ0204SEZZ	SO-039	Socket, FM Antenna		
SO812	QSOCJ0205SEZZ	SO-041	Socket, MW EXT. Antenna		
SO813	QSOCD0502SEZZ	SO-971	Socket (DIN), PHONO		
J801	QJAKJ0001SGZZ	J-993	Jack, Microphone		
J802	QJAKJ0003SEZZ	J-973	Jack, Headphone		
SW201A~G	QSW-P0003SEZZ	6S-93	Switch, 2 CHANNEL TAPE (SW201A), PHONO (SW201B), MW (SW201C), FM (SW201D), MODE (SW201E), TAPE MONITOR (SW201F) and Loudness (SW201G)		
SW801	QSW-P0012AGZZ	X6S-85SEV	Switch, Power ON-OFF		
SW802	QSW-R0066AGZZ		Switch, 4 Channel Selector		
SW803	QSW-S0044AGZZ	13S-402	Switch, Cartridge Selector		
	NPLYB0001SEZZ	P-513	Pulley, Dial Cord		
	NPLYC0010SEZZ	P-SHAFT	Shaft, Pulley		
	QFSHD1001AGZZ		Fuse Holder, Power Amplifier		
	QFSHP1001AGZZ		Fuse Holder, Power Cord		
	LANGQ0195AGZZ	XT-ANG9762	Rear Plate		
	QTANT0101SEZZ		Terminal, Ground		
	PRDAR3006SEFW	HON-P9717	Heat Sink, Power Transistor		
	LANGT9016SEZZ	HON-A9717A	Bracket, Heat Sink, Left		
	LANGT9017SEZZ	HON-A9717B	Bracket, Heat Sink Right		
	QPWBF0052SEZZ	PCB-9717A	Printed Wiring Board, Function Selector Switches		
	QPWBF0001SGZZ	PCB-9717H	Printed Wiring Board, 4 Channel Level Indication and Mic. Amplifier Circuit		
	QPWBF0054SEZZ	PCB-9717C	Printed Wiring Board, Volume Circuit		
	QPWBF0261AGZZ		Printed Wiring Board, Power Amplifier		
	QPWBF0260AGZZ		Printed Wiring Board, Power Supply Circuit		
	QPWBF0039SEZZ		Printed Wiring Board, RF/IF/MPX Circuit		
	QPWBF0053SEZZ		Printed Wiring Board, Tone (Bass/Treble)		
	QPWBF0272AGZZ		Printed Wiring Board, Matrix Circuit		
	PSHEP0015AGZZ	HOGO-S9757	Protection, Dial		
	PTUBG0001CEZZ	ZET-T-572	Tube, Insulating, Power Transistor		
	PSPAZ9008AGZZ		Insulator, Power Transistor		
	PSPAZ9013AGZZ		Spacer, Power Transistor		
	QSOCP0002CEZZ		Socket, Dial Lamp and Meter Lamp		
	PCOVU3004SEZZ	COVER-9717	Bracket, Dial Lamp		
	LRALM0012SEFD	RAYL-43	Rail, Dial Pointer		
	LANGR4046SEZZ	XVA-617	Bracket, Front Panel		
	NSFTD0030SEFW	DS-509	Shaft, Tuning Knob		
	LX-WZ3009SEFE	10TOK-W275	Washer, Tuning Shaft		
	LHLDP8001SE09	G-COV9717A	Holder, Stereo Indication Lamp Rubber		
	LHLDP8002SE09	G-COV9717B	Holder, 4 Channel Level Lamp, Rubber		
	PSPAN0002SEZZ	SPACER911B	Spacer, Jack, Rear		
	PSPAP0012AGZZ	SPACE-9752	Spacer, Jack, Front		
	LX-NZ3030SEFN	9TOK-NK	Nut, Jack		
	LANGF5031SEZZ	SUB-A9717A	Holder, Pulley Bracket, Left		
	LANGK0080AGZZ	P-A9717E	Bracket, Pulley		
	LANGQ7008SEZZ	CH-A9717	Bracket, Antenna Holder		
	LANGT7054SEZZ	XP-A9717D	Bracket, Pulley, Right		
	LHLDC7001SEZZ	CH-64	Holder, AM Antenna Core		
	MSPRT0001SGZZ	SPRING	Spring, Dial Cord		

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